Date:

July 10, 1995

Prepared by: Chris Smith, Alabama Department of

Environmental Management

Site:

American Cyanamide

EPA ID. #:

ALD008175408

Ref #:

0149

1.0 INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA) the Alabama Department of Environmental Management (ADEM), Field Operations Division, conducted a Site Inspection Prioritization (SIP) on the American Cyanamide site in Mobile, Mobile County, Alabama. The purpose of this investigation was to assess the threat to human health and the environment the site may pose. This included reviewing existing information and evaluating the site under the Hazard Ranking System (HRS).

2.0 SITE DESCRIPTION

2.1 Location

The American Cyanamide site is located in a industrial area of Mobile, Alabama. The site coordinates are 30 44'54" latitude and 88 03'29" longitude. The site is located on Cyanamide Rd. north of the Mobile International Paper Company Plant. It can further be located Township 3S, Range 1W. The exact section in which the site is located is not clearly marked on the map. [1,8]

2.2 Operational History

The American Cyanamide facility is active and currently operating as Cytec Industries Inc. The facility process includes the production of alum, sizing for paper products, and synthetic resins. Some of the products manufactured are: Polyacrylamide in water-in-oil, which is used for wastewater treatment of paper fibers; Cypress 48, which is used as a coating on paper utensils; Polyacrylamide in water/Accostrength 711 also used as a paper coating; Aluminum Sulfate, which is used for water purification and as a paper coating. Some of the materials used by American Cyanamide (Cytec) to produce their products are toluene, styrene, acrylic acid, ammonium hydroxide, sulfuric acid, and formaldehyde. The facility has been operated since 1937 or earlier. [1,2]

3.0 WASTE SOURCE

Cytec is a generator of hazardous waste and is regulated under RCRA. They currently operate a 90 day storage unit and therefore are not classified as a RCRA hazardous waste storage or disposal facility. They are classified as a generator only. Prior to operating the 90 day unit, Cytec operated a hazardous waste drum storage area. Clean

closure for the drum storage area was accepted by ADEM on 9/18/91. Throughout the years of operation nonhazardous and hazardous waste has been disposed off site. The facility utilizes two surface impoundments on site. One impoundment is used for recycling and recovering water. This impoundment is a cement basin that is 37,800 cubic feet. The second impoundment is clay lined and is used for holding alum mud. The second is 2,037,750 cubic feet. [1,2,3,4,5]

4.0 GROUNDWATER PATHWAY

4.1 Hydrogeology

The site is underlain by Dorovan Levy soils. Dorovan Levy soils are a very poorly drained soils. Permeability of these soils is estimated to be between 1.4E03 to 1.4E04 centimeters per second. They have a high saturation capacity and the water table is near the surface most of the year. [6]

Cytec is located in the Alluvial-Deltaic plain region of the East Gulf Coastal Plain physiographic section. The site is on terrace coastal deposits of Quaternary age which overlays the Citronelle Formation and a thick sequence of Miocene Series undifferentiated. The major aquifers in the area are the Pliocene-Miocene and the Alluvial Coastal. The two aquifers are hydraulically connected. [6]

4.2 Groundwater Targets

Public water is available throughout the entire target distance limit. The Mobile Water Service System, the Prichard Water Works Board and the Saraland Water Service provide water to the residents within the 4 mile radius. The Mobile and the Prichard utilities obtain 100 percent of their water from surface water. Saraland obtains their water from drinking water wells outside the target distance limit. [7]

4.3 Groundwater Conclusions

No groundwater targets were found during this investigation; therefore, it appears that the American Cyanamide (Cytec) site pose no threat to the groundwater pathway.

5.0 SURFACE WATER PATHWAY

5.1 Hydrology

Overland drainage from the facility flows into Hog Bayou an estimated 2000 feet from the furthest point. Hog Bayou flows approximately 0.9 of a mile and flows into Chickasaw Creek. From the convergence of Hog Bayou and Chickasaw Creek the Chickasaw flows an approximate 1.25 miles and empties into the Mobile River. The Mobile River then carries site influenced drainage 8.35 miles and empties into the Mobile Bay. [8]

Site influenced drainage flows into the Mobile Bay 10.5 miles from the PPE. The fifteen target distance limit ends in Mobile Bay. No flow data was found for Hog Bayou or the Mobile River. Hog Bayou is a moderate stream and therefore will fall in the 10-100cfs category. A station on the Tombigbee River, which is roughly the same size as the Mobile River and flows into the Mobile River, was used to get flow data. The Tombigbee River at the Coffeville, Alabama station for calendar year 1987 had a minimum flow of 1010 cfs. Chickasaw Creek has a 62 cfs 2 year 7 day low flow. [8,9,10]

5.2 Surface Water Targets

There are no endangered or threatened aquatic species known to inhabit Hog Bayou or Chickasaw Creek. The Mobile River is known to be inhabited by the federally endangered Alabama red-bellied turtle and the federally threatened Gulf Sturgeon. There is also an estimated 2.9 miles of wetland frontage associated with the surface water pathway.

5.3 Surface Water Conclusions

The surface water pathway does have targets found within the target distance limit, but when considering the presence of source containment and site contaminants it is unlikely that the American Cyanamide site poses an actual contamination threat.

6.0 SOIL EXPOSURE AND AIR PATHWAYS

6.1 Site Conditions

The site is completely fenced and inaccessible to nonemployees. Source areas were contained and all spills have been remediated. No evidence of surface contamination was found during this investigation. [1,5]

6.2 Soil and Air Targets

There were no terrestrial sensitive environments identified during this investigation. The estimated population within the 1 mile radius is 0, 50 and 2500 in the 0-1/4, 1/4-1/2, and 1/2-1 mile radii respectively. There are 103 workers on site. [5,8]

6.3 Soli and Air Conclusions

Considering the lack of contamination the site poses no threat to the Soil or Air Pathways.

7.0 CONCLUSIONS

The Groundwater, Soil and Air Pathways have no threat when considering the HRS. Although the Surface Water Pathway has targets within the target distance limit, it is unlikely that a level of contamination exist that would threaten the targets. This statement is made considering site containment, site contaminants and the current HRS. It is suggested the site NFRAPed.

References:

- 1) Preliminary Assessment
- 2) May 11, 1989 Memorandum from Alicia A. Finch to Bernard E. Cox
- 3) Certified letter dated Sept. 18, 1991 (Closure of drum storage area)
- 4) Certified letter dated May 10, 1991 (Drum storage area closure plan)
- 5) Telephone conversation with Tom Hankins (Cytec Environmental Rep.)
- 6) Geology Report
- 7) FRDS II, ADEMs Public Drinking Water Database
- 8) U.S.G.S. 7.5 minute series topographic maps, Mobile and Chickasaw Quadrangles
- 9) U.S.G.S. Water Resources Data, Alabama Water Year 1990
- 10) Low-Flow and Flow-Duration Characteristics of Alabama Streams
- 11) U.S. Fish and Wildlife Service, Federally listed species information

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APPENDIX C SITE INSPECTION WORKSHEETS

This appendix consists of worksheets that can be used to generate an SI site score. Completion of these worksheets is not required, but the SI investigator must evaluate an SI score, either by these worksheets, *PREscore*, or other Regional scoring tools.

The worksheets consist of instructions and data tables to be filled in with scores from HRS reference tables. The data tables may also call for Data Type and References.

DATA TYPE: The Data Type columns should be filled in with an H, Q, or + if the data are HRS quality and well documented. The Data Type column should be filled in with an E, X, or - if the data represent estimates, approximations, or are not fully documented. This type identifies data gaps for the expanded SI to investigate.

REFERENCES: The Reference columns should be filled in with coded reference numbers. The numbered reference list should be attached or the numbering should be cross-referenced to the SI Narrative Report.

The SI investigator will need the current Superfund Chemical Data Matrix (SCDM) OSWER Directive 9345.1-13 (revised semi-annually) to complete these worksheets.

SITE INSPECTION WORKSHEETS

CERCLIS IDENTIFICATION NUMBER
ALD008175408

		····		ALD008175408	
	SITE LOCA	TION			
SITE NAME		*****			
American Cyanamid					
ADDRESS					
P.O. Box 1924					
					
		T	1		1
CITY		STATE	ZIP CODE	TELEPHONE	1
CITY Mobile		STATE Alabama		TELEPHONE 334-457-6601	
		1	36633		

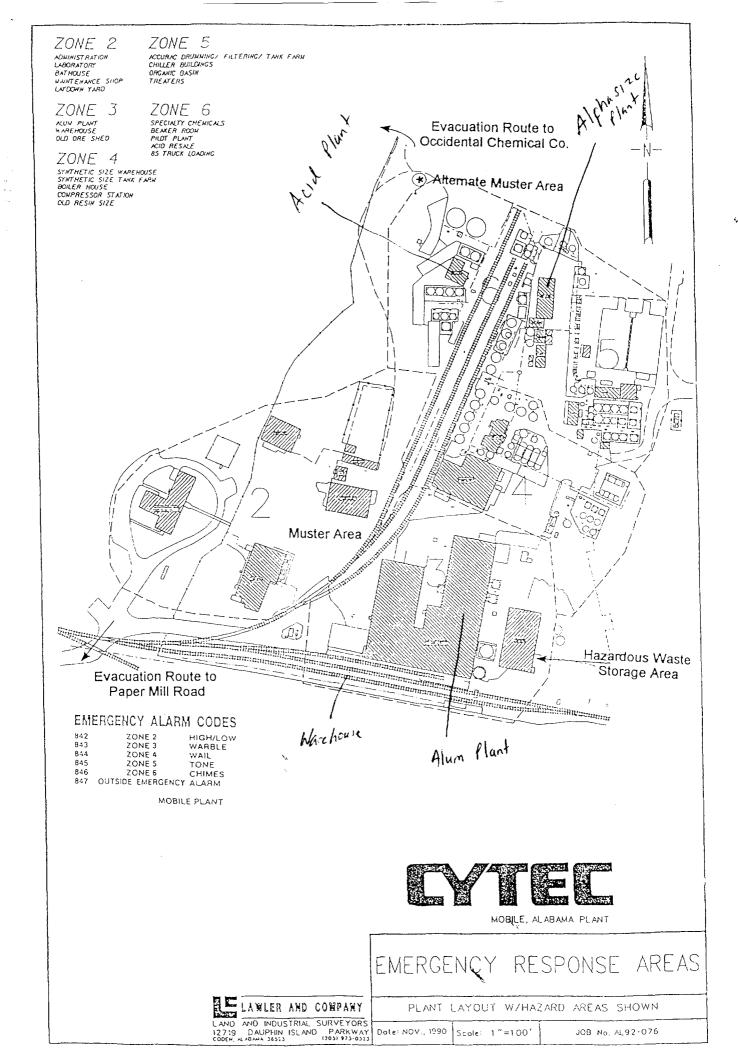
_	OWNER/OPE	RATOR IDENTIFI	CATION		
OWNER			OPERATO	R	
Cytec Inc	lustries Inc.		Cytec Inc	lustries Inc.	
OWNER A	DDRESS		OPERATO	R ADDRESS	
Cyanam	ide Rd.		5 Garret	Mountain Pla	ıza
CITY			CITY		
Mobile			West Pa	terson	
STATE	ZIP CODE	PHONE#	STATE	ZIP CODE	PHONE#
Al	36614	334/4576601	NJ	07470)

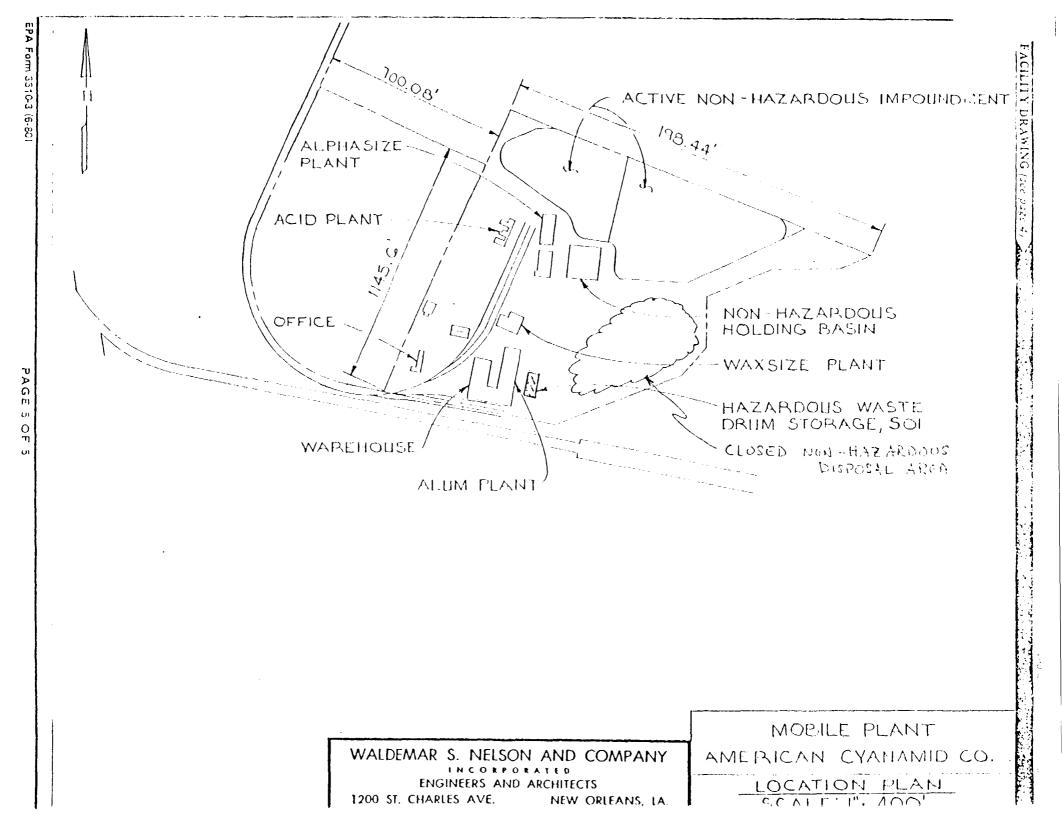
SITE EVALUATION	
AGENCY/ORGANIZATION	
ADEM	
INVESTIGATOR	
Chris Smith	
CONTACT	
Jymalyn Redmond	
TELEPHONE	
334-260-2791	

GENERAL INFORMATION

The American Cyanamide facility is active and currently operating as Cytec Industries Inc. The facility process includes the production of alum, sizing for paper products, and synthetic resins. Some of the products manufactured are: Polyacrylamide in water-in-oil, which is used for wastewater treatment of paper fibers; Cypress 48, which is used as a coating on paper utensils; Polyacrylamide in water/Accostrength 711, which is used as a paper coating; Aluminum Sulfate, which is used for water purification and as a paper coating. Some of the materials used by American Cyanamide (Cytec) to produce their products are toluene, styrene, acrylic acid, ammonium hydroxide, sulfuric acid and formaldehyde. The facility has been operating since 1937 or earlier.

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GENERAL INFORMATION

SOURCE:

Sources of potential contamination associated with the Cytec facility are the closed hazardous waste drum storage area and two surface impoundments. As stated earlier the drum storage area was clean closed on 9/18/91. When the removal or cleanup was conducted, 40 cubic feet of powder residue (6 55 gallon drums) was removed and 4 fifty five gallon drums (approximately 175 gallons) of wash water was collected. The impoundments on site are actively used for holding water and alum mud. One impoundment is 37,800 cubic feet and the other is 2,037,750 cubic feet. The smaller impoundment is a cement basin and the larger impoundment is clay lined.

HAZARDOUS WASTE QUANTITY:

Score without consideration of removal or cleanup:

1 ton=2,000 lbs=1 cubic yard=4 drums=200 gallons

Drum storage area

40 cubic feet * .03704 = 1.4816 cubic yards = approximately 3000 lbs. 6 fifty five gallon drums = approximately 3000 lbs.

as per Tier B Column 7

6000 lbs./5000 lbs. = 1.2

Impoundments

as per Tier C Column 7

37,800/67.5 = 560 2,037,750/67.5 = 30,188.88

Total = 30.750

HWQ = 10,000

as per 2.4.2.2 (consideration of removal action) HWQ = 100

GENERAL INFORMATION (continued)

Source Descriptions: Describe all sources at the site. Identify source type and relate to waste disposal operations. Provide source dimensions and the best available waste quantity information. Describe the condition of sources and all containment structures. Cite references.

SOURCE TYPES

Landfill: A man-made (by excavation or construction) or natural hole in the ground into which wastes have come to be disposed by backfilling, or by contemporaneous soil deposition with waste disposal.

Surface Impoundment: A natural topographic depression, man-made excavation, or diked area, primarily formed from earthen materials (lined or unlined) and designed to hold an accumulation of liquid wastes, wastes containing free liquids, or sludges not backfilled or otherwise covered; depression may be wet with exposed liquid or dry if deposited liquid has evaporated, volatilized or leached; structures that may be described as lagoon, pond, aeration pit, settling pond, tailings pond, sludge pit; also a surface impoundment that has been covered with soil after the final deposition of waste materials (i.e., buried or backfilled).

Drum: A portable container designed to hold a standard 55-gallon volume of wastes.

Tank and Non-Drum Container: Any device, other than a drum, designed to contain an accumulation of waste that provides structural support and is constructed primarily of fabricated materials (such as wood, concrete, steel, or plastic); any portable or mobile device in which waste is stored or otherwise handled.

Contaminated Soil: An area or volume of soil onto which hazardous substances have been spilled, spread, disposed, or deposited.

Pile: Any non-containerized accumulation above the ground surface of solid, non-flowing wastes; includes open dumps. Some types of waste piles are:

Chemical Waste Pile:
 A pile consisting primarily of discarded chemical products, by-

products, radioactive wastes, or used or unused feedstocks.

• Scrap Metal or Junk Pile: A pile consisting primarily of scrap metal or discarded durable

goods (such as appliances, automobiles, auto parts, batteries, etc.) composed of materials containing hazardous substances.

• Tailings Pile: A pile consisting primarily of any combination of overburden from

a mining operation and tailings from a mineral mining.

beneficiation, or processing operation.

Trash Pile: A pile consisting primarily of paper, garbage, or discarded non-

durable goods containing hazardous substances.

Land Treatment: Landfarming or other method of waste management in which liquid wastes or sludges are spread over land and tilled, or liquids are injected at shallow depths into soils.

Other: Sources not in categories listed above.

SI TABLE 1: HAZARDOUS WASTE QUANTITY (HWQ) SCORES FOR SINGLE SOURCE SITES AND FORMULAS FOR MULTIPLE SOURCE SITES

			le Source Sites
(Column 1)	(Column 2)	(Column 3)	ned HWQ scores) (Column 4)
(00.0		(00,2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(00.0
TIER	Source Type	HWQ = 10	HWQ = 100
A Hezerdous Constituent Quentity	N/A	HWQ = 1 if Hazardous Constituent Quantity data are complete HWQ = 10 if Hazardous Constituent Quantity data are not complete	>100 to 10,000 lbs
B Hazerdous Wastestream Quantity	N/A	≤ 500,000 lbs	>500,000 to 50 million lbs
	Landfill	≤ 6.75 million ft ³ ≤ 250,000 yd ³	>6.75 million to 675 million ft ³ >250,000 to 25 million yd ³
	Surface impoundment	≤6,750 ft ³ ≤250 yd ³	>6,750 to 675,000 ft ³ >250 to 25,000 yd ³
	Drums	≤1,000 drums	>1,000 to 100,000 drums
C	Tanks and non-drum containers	≤50,000 galions	>50,000 to 5 million gallons
	Contaminated soil	≤6.75 million ft ³ ≤250,000 yd ³	>6.75 million to 675 million ft ³ >250,000 to 25 million yd ³
	Pile	≤6,750 tt ³ ≤250 yd ³	>6,750 to 675,000 ft ³ >250 to 25,000 yd ³
	Other	≤6,750 ft ³ ≤250 yd ³	>6,750 to 675,000 ft ³ >250 to 25,000 yd ³
	Landfill	≤340,000 ft ² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 acres
D	Surface impoundment	≤1,300 ft ² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres
Ares	Contaminated soil	≤3.4 million ft ² ≤78 acres	> 3.4 million to 340 million ft ² > 78 to 7,800 acres
	Pile •	≤1,300 ft ² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres
	Land treatment	≤27,000 ft ² ≤0.62 acres	>27,000 to 2.7 million ft ² >0.62 to 62 acres

TABLE 1 (CONTINUED)

Single Source		Multiple		
(assigned HWQ) (Column 5)	(Column 6)	Source Sites (Column 7)	(Column 2)	(Column 1)
HWQ = 10,000	HWQ = 1,000,000	Divisors for Assigning Source WQ Values	Source Type	TIER
>10,000 to 1 million lbs	> 1 million lbs	bs + 1	N/A	A Hazardous Constituent Quantity
>50 million to 5 billion lbs	> 5 billion lbs	lbs + 5,000	N/A	B Hezardous Westestream Quantity
>675 million to 67.5 billion ft ³	> 67.5 billion ft ³	ft ³ + 67.500	Landfill	
>25 million to 2.5 billion yd ³	> 2.5 billion yd ³	yd ³ + 2,500		
>675,000 to 67.5 million ft ³ >25,000 to 2.5 million yd ³	> 67.5 million ft ³ > 2.5 million yd ³	tt ³ + 67.5 yd ³ + 2.5	Surface Impoundment	
>100,000 to 10 million drums	> 10 million drums	drums + 10		
>5 million to 500 million gallons	> 500 million gallons	galions + 500	Drums Tanks and non-drum	C Volume
>675 million to 67.5 billion ft ³ >25 million to 2.5 billion yd ³	> 67.5 billion ft ³ > 2.5 billion yd ³	ft ³ + 67,500 yd ³ + 2,500	containers Contaminated Soil	
>675,000 to 67.5 million ft ³ >25,000 to 2.5 million yd ³	> 67.5 million ft ³ > 2.5 million yd ³	ft ³ + 67.5 yd ³ + 2.5	Pile	
>675,000 to 67.5 million tt ³ >25,000 to 2.5 million yd ³	> 67.5 million ft ³ > 2.5 million yo ³	ft ³ + 67.5 yd ³ + 2.5	Other	
>34 million to 3.4 billion ft ² >780 to 78,000 acres	> 3.4 billion ft ² >78,000 acres	tt ² + 3,400 acres + 0.078	Landfill	
>130,000 to 13 million ft ² >2.9 to 290 acres	> 13 million ft ² > 290 acres	ft ² + 13 acres + 0.00029	Surface Impoundment	D
> 340 million to 34 billion ft ² > 7,800 to 780,000 acres	> 34 billion tt ² > 780,000 acres	ti ² + 34,000 acres + 0.78	Contaminated Soil	Area
> 130,000 to 13 million ft ² > 2.9 to 290 acres	> 13 million ft ² > 290 acres	ft ² + 13 acres + 0.00029	Pile	
>2.7 million to 270 million ft ² >62 to 6,200 acres	> 270 million ft ² > 6,200 acres	ft ² + 270 acres + 0.0062	Land Treatment	

HAZARDOUS WASTE QUANTITY (HWQ) CALCULATION

For each migration pathway, evaluate HWQ associated with sources that are available (i.e., incompletely contained) to migrate to that pathway. (Note: If *Actual Contamination Targets* exist for ground water, surface water, or air migration pathways, assign the calculated HWQ score or 100, whichever is greater, as the HWQ score for that pathway.) For each source, evaluate HWQ for one or more of the four tiers (SI Table 1; HRS Table 2-5) for which data exist: constituent quantity, wastestream quantity, source volume, and source area. Select the tier that gives the highest value as the source HWQ. Select the source volume HWQ rather than source area HWQ if data for both tiers are available.

Column 1 of Si Table 1 indicates the quantity tier. Column 2 lists source types for the four tiers. Columns 3, 4, 5, and 6 provide ranges of waste amount for sites with only one source, corresponding to HWO scores at the tops of the columns. Column 7 provides formulas to obtain source waste quantity values at sites with multiple sources.

- 1. Identify each source type.
- 2. Examine all waste quantity data available for each source. Record constituent quantity and waste stream mass or volume. Record dimensions of each source.
- 3. Convert source measurements to appropriate units for each tier to be evaluated.
- 4. For each source, use the formulas in the last column of SI Table 1 to determine the waste quantity value for each tier that can be evaluated. Use the waste quantity value obtained from the highest tier as the quantity value for the source.
- Sum the values assigned to each source to determine the total site waste quantity.
- 6. Assign HWQ score from Si Table 2 (HRS Table 2-6).

Note these exceptions to evaluate soil exposure pathway HWQ (see HRS Table 5-2):

- The divisor for the area (square feet) of a landfill is 34,000.
- The divisor for the area (square feet) of a pile is 34.
- Wet surface impoundments and tanks and non-drum containers are the only sources for which volume measurements are evaluated for the soil exposure pathway.

SI TABLE 2: HWQ SCORES FOR SITES

Site WQ Total	HWQ Score
0	0
1ª to 100	1 ^b
> 100 to 10,000	100
> 10,000 to 1 million	10,000
> 1 million	1,000,000

^{*} If the WQ total is between 0 and 1, round it to 1.

b If the hazardous constituent quantity data are not complete, assign the score of 10.

WASTE CHARACTERIZATION WORKSHEET

Site Name: American Cyanamide

References: PA. SCDM

Sources:

1. Drum storage area

Source	Hazardous Substance	Toxicity	GW Mobility	GW Tox/Mobility	SW Per	SW Tox/Per	SW Bioac Pot.	SW Tox/Per/ Bioac	SW Ecotox	SW Ecotox/ Per	SW Ecotox/Per/ Bioac
1	Acrylamide	1000	1	1000	1	1000	5	5.0E+3	10	10	5.0E+1
1	Formaldehyde	10	1	10	1	10	.5	5.0E+0			
1	Sytrene	10	.01	1	.4	4	50	2.0E+2	100	40	2.0E+3
1	Sulfuric acid	1000	1	1000	.4	400	.5_	2.0E+2	10	4	2.0E+0
1	Toluene	10	.01	.1	.4	4	50	2.0E+2	100	40	2.0E+3
				!					· · —		

Ground Water Observed Release Substances Summary Table

On SI Table 4, list the hazardous substances associated with the site detected in ground water samples for that aquifer. Include only those substances directly observed or with concentrations significantly greater than background levels. Obtain toxicity values from the Superfund Chemical Data Matrix (SCDM). Assign mobility a value of 1 for all observed release substances regardless of the aquifer being evaluated. For each substance, multiply the toxicity by the mobility to obtain the toxicity/mobility factor value; enter the highest toxicity/mobility value for the aquifer in the space provided.

Ground Water Actual Contamination Targets Summary Table

If there is an observed release at a drinking water well, enter each hazardous substance meeting the requirements for an observed release by well and sample ID on SI Table 5 and record the detected concentration. Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For MCL and MCLG benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the population using the well as a Level I target. If these percentages are less than 100% or all are N/A, evaluate the population using the well as a Level II target for that aquifer.

_	SI TABLE 4:	GROUND WATER	DBSERVED	RELEASE S	UBSTANCE	S (BY AQUI	FER)	•	
	Sample ID	Hazardous Substance	Bckgrd, Conc.	Toxicity/ Mobility	References	•			
F									
F									
F									
[
		•	icity/Mobility						
		GROUND WATER							
	Well ID:				Level II	_ Population Se	orved	Reference	3
ဂ	Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RID	% of RID
-13									
ļ									
L		 	<u>. </u>	Highest Percent		Sum of Percents		Sum of Percents	
	Well ID:	·		Level I	Level II	Population Se	erved	Reference	98
	Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RfD
ł									
ŀ									
[<u> </u>	<u> </u>	Highest		Sum of		Sum of	
				Percent	L	Percents	L	Percents	L

GROUNDWATER PATHWAY

Groundwater use:

The site is underlain by Dorovan Levy soils. Dorovan Levy soils are a very poorly drained soils. Permeability of these soils is estimated to be between 1.4E03 to 1.4E04 centimeters per second. They have a high saturation capacity and the water table is near the surface most of the year.

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GROUND WATER PATHWAY WORKSHEET

			Data	
LIK	ELIHOOD OF RELEASE	Score	Type	Refs
	OBSERVED RELEASE: If sampling data or direct observation			
1	support a release to the aquifer, assign a score of 550. Record	1	j i	
	observed release substances on SI Table 4.			
	POTENTIAL TO RELEASE: Depth to aquifer:feet. If	ł	İ	
1 8	sampling data do not support a release to the aquifer, and the site is	l		
į	n karst terrain or the depth to aquifer is 70 feet or less, assign a			
	score of 500; otherwise, assign a score of 340. Optionally,	500		
	evaluate potential to release according to HRS Section 3.)		
	LR =	500		
	IGETS			
1 !	Are any wells part of a blended system? Yes No			
1	f yes, attach a page to show apportionment calculations.			
j .				
3.	ACTUAL CONTAMINATION TARGETS: If analytical evidence			
i ti	ndicates that any target drinking water well for the aquifer has been			
	exposed to a hazardous substance from the site, evaluate the			i
ļ 1	actor score for the number of people served (SI Table 5).			
1,	evei I: people x 10 =			1
	evel II: people x 1 = Total =			
~	people x 1 = rotal s	\cup		ĺ
4. F	POTENTIAL CONTAMINATION TARGETS: Determine the number			
	of people served by drinking water wells for the aquifer or overlying		İ	[
	quifers that are not exposed to a hazardous substance from the			1
	ite; record the population for each distance category in SI Table 6a	_		
	r 6b. Sum the population values and multiply by 0.1.	\mathcal{O}		- 1
	IEAREST WELL: Assign a score of 50 for any Level I Actual			
	contamination Targets for the aquifer or overlying aquifer. Assign a			- 1
8	core of 45 if there are Level II targets but no Level I targets. If no			j
	ctual Contamination Targets exist, assign the Nearest Well score		ŀ	ı
	om SI Table 6a or 6b. If no drinking water wells exist within 4 miles,	\circ	1	ł
	ssign 0.			
	VELLHEAD PROTECTION AREA (WHPA): If any source lies		1	
	rithin or above a WHPA for the aquifer, or if a ground water		ŀ	
	bserved release has occurred within a WHPA, assign a score of		ì	1
	0; assign 5 if neither condition applies but a WHPA is within 4	\mathcal{O}		
	niles; otherwise assign 0.			
	ESOURCES: Assign a score of 5 if one or more ground water esource applies; assign 0 if none applies.		į	ļ
16	source applies, assign our notice applies.			
	Irrigation (5 acre minimum) of commercial food crops or		}	
	commercial forage crops		1	
	Watering of commercial livestock		ļ	1
	Ingredient in commercial food preparation		(
	Supply for commercial aquaculture	ì	1	
	Supply for a major or designated water recreation area,		ļ	ŀ
	excluding drinking water use		1	
				Ì
	Sum of Targets T=	()		

SI TABLE 6 (From HRS TABLE 3-12): VALUES FOR POTENTIAL CONTAMINATION GROUND WATER TARGET POPULATIONS

SI Table 6a: Other Than Karst Aquifers

[Populat	on Serve	d by Wel	s within Di	stance Cat	egory				
	Distance from Site	Рор.	Nearest Well (choose highest)	1 to 10	11 to 30	31 to 100	101 to 300	301 to 1000	1001 to 3000	3001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000 to 3,000,000	Pop. Value	Rel.
	$0 \text{ to } \frac{1}{4} \text{ mile}$		20	4	17	53	164	522	1,633	5,214	16,325	52,137	163,246	521,360	1,632,455		
	$>\frac{1}{4}$ to $\frac{1}{2}$ mile		18	2	11	33	102	324	1,013	3,233	10,122	32,325	101,213	323,243	1,012,122		
0	> 1/2 to 1 mile		9	1	5	17	52	167	523	1,669	5,224	16,684	52,239	166,835	522,385		
-16	> 1 to 2 miles		5	0.7	3	10	30	94	294	939	2,939	9,385	29,384	93,845	293,842		
	> 2 to 3 miles		3	0.5	2	7	21	68	212	678	2,122	6,778	21,222	67,777	212,219		
	>3 to 4 miles		2	0.3	1	4	13	42	131	417	1,306	4,171	13,060	41,709	130,596		
'	Nearest 1	Nell =													Sum =		

SI TABLE 6 (From HRS TABLE 3-12): VALUES FOR POTENTIAL CONTAMINATION GROUND WATER TARGET POPULATIONS (continued)

SI Table 6b: Karst Aquifers

ſ								Populat	on Serve	d by Wel	ls within Di	stance Cat	egory				
	Distance from Site	Pop.	Nearest Well (choose highest)	1 to 10	11 to 30	31 10 100	101 to 300	301 to 1000	1001 to 3000	3001 to 10,000	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	1,000,000 to 3,000,000	Pop. Value	Ref.
[0 to $\frac{1}{4}$ mile		20	4	17	53	164	522	1,633	5,214	16,325	52,137	163,246	521,360	1,632,455		
	$>\frac{1}{4}$ to $\frac{1}{2}$ mile		20	2	11	33	102	324	1,013	3,233	10,122	32,325	101,213	323,243	1,012,122		
ç	$>\frac{1}{2}$ to 1		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
7	> 1 to 2 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		·
	> 2 to 3 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
	>3 to 4 miles		20	2	9	26	82	261	817	2,607	8,163	26,068	81,623	260,680	816,227		
•	Nearest 1	Nell =													Sum =		

GROUND WATER PATHWAY WORKSHEET (concluded)

WA	STE CHARACTERISTICS	Score	Data Type	Does not Apply
8.	If any Actual Contamination Targets exist for the aquifer or overlying aquifers, assign the calculated hazardous waste quantity score or a score of 100, whichever is greater; if no Actual Contamination Targets exist, assign the hazardous waste quantity score calculated for sources available to migrate to ground water.	100		
9.	Assign the highest ground water toxicity/mobility value from SI Table 3 or 4.	1000		
10.	Multiply the ground water toxicity/mobility and hazardous waste quantity scores. Assign the Waste Characteristics score from the table below: (from HRS Table 2-7)			
	Product WC Score		j	
	0 >0 to <10			
	10 to <100 2 100 to <1,000 3	JI		l
	10 to <100 2 100 to <1,000 3 1,000 to < 10,000 6			
	10,000 to <1E + 05 10		ļ	
	1E + 05 to <1E + 06		Į i	
	1E + 07 to <1E + 08 56			
	1E + 08 or greater 100			
		10		
	WC =			

Multiply LR by T and by WC. Divide the product by 82,500 to obtain the ground water pathway score for each aquifer. Select the highest aquifer score. If the pathway score is greater than 100, assign 100.

GROUND WATER PATHWAY SCORE:

LR X T X WC

(Maximum of 100)

500 x 0 × 10/82500 = 0

Hydrology:

Overland drainage from the site flows into Hog Bayou an estimated 2000 feet from the furthest point. From the PPE in Hog Bayou site drainage flows an estimated .9 of a mile and empties into Chickasaw Creek. Chickasaw Creek then carries site drainage 1.25 miles and flows into the Mobile River. The Mobile River flows for 8.35 miles and empties into the Mobile Bay. No flow data was found for Hog Bayou or the Mobile River. Hog Bayou is a moderate stream and therefore will fall in the 10 - 100 cfs category. A station on the Tombigbee River, which is roughly the same size as the Mobile River and drains into the Mobile River, was used to get flow data. The Tombigbee River at the Coffeville, Alabama station for calendar year 1987 had a low flow of 1010 cfs. Chickasaw Creek has a 62 cfs 2 year 7 day low flow.

Targets:

There are no endangered or threatened aquatic species known to inhabit Hog Bayou or Chickasaw Creek. The Mobile River is known to be inhabited by the federally endangered Alabama red-bellied turtle and the federally threatened Gulf Sturgeon. There is also an estimated 2.9 miles of wetland frontage associated with the surface water pathway.

Conclusions:

None of the site contaminants have a bioaccumulation factor of 500 or greater so there is only a potential threat to the Human Food Chain. If level 1 actual contamination was established within all the wetland boundaries the environmental threat would be maxed. The endangered and threatened species are not considered because they are found in the Mobile River which is classified for industrial use and receives and has received alot of industrial wastewater discharges. Considering this, attribution would more than likely be a problem. This would also be a factor with a portion of the wetland frontage. Also the sources of potential contamination have containment to prevent migration.

Sketch of the Surface Water Mig Label all surface water bodies. Include 15-mile target distance limit. Mark samp Indicate flow directions, tidal influence,	ketch of the Surface Water Migration Route: abel all surface water bodies. Include runoff route and drainage direction, probable point of entry, and 5-mile target distance limit. Mark sample locations, intakes, fisheries, and sensitive environments. Indicate flow directions, tidal influence, and rate.					
_	·					
·						
·	•					

Surface Water Observed Release Substances Summary Table

On SI Table 7, list the hazardous substances detected in surface water samples for the watershed, which can be attributed to the site. Include only those substances in observed releases (direct observation) or with concentration levels significantly above background levels. Obtain toxicity, persistence, bioaccumulation potential, and ecotoxicity values from SCDM. Enter the highest toxicity/persistence, toxicity/persistence/bioaccumulation, and ecotoxicity/persistence/ecobioaccumulation values in the spaces provided.

- TP = Toxicity x Persistence
- TPB = TP x bioaccumulation
- ETPB = EP x bioaccumulation (EP = ecotoxicity x persistence)

Drinking Water Actual Contamination Targets Summary Table

For an observed release at or beyond a drinking water intake, on SI Table 8 enter each hazardous substance by sample ID and the detected concentration. For surface water sediment samples detecting a hazardous substance at or beyond an intake, evaluate the intake as Level II contamination. Obtain benchmark, cancer risk, and reference dose concentrations for each substance from SCDM. For MCL and MCLG benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages of the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage or the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the population served by the intake as a Level I target. If the percentages are less than 100% or all are N/A, evaluate the population served by the intake as a Level II target.

	Sample ID	Hazardous Substance	Bckgrd. Conc.	Toxicity/ Persistence	Toxicity/ Persis./ Bioaccum	Ecotoxicity/ Persis/ Ecobloaccum	References		
E		Hig	jhest Values						
	SI TABLE 8:	SURFACE WATER		WATER ACT				i Releve	incae
_	TRAKE ID	Sample Type					T Opulation Served		
?	Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RfD	% of RID
E									
┝									
L				Highest Percent		Sum of Percents		Sum of Percents	
1	Intake ID:	Sample Type		Lev	/el 1	Level II	Population Serve	dRefere	ences
	Sample ID	Hazardous Substance	Conc. (µg/L)	Benchmark Conc. (MCL or MCLG)	% of Benchmark	Cancer Risk Conc.	% of Cancer Risk Conc.	RID	% of RID
L									
F									
L	<u></u>	<u> </u>	<u></u>	Highest Percent		Sum of Percents		Sum of Percents	

SI TABLE 7: SURFACE WATER OBSERVED RELEASE SUBSTANCES

SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT WORKSHEET

	KELIHOOD OF RELEASE-		•	Data	5 - 1
_	/ERLAND/FLOOD MIGRATION		Score	Type	Refs
1.		t observation		1	Ì
1	support a release to surface water in the watershe	id, assign a score	}	İ	}
<u></u>	of 550. Record observed release substances on			<u> </u>	
12.	POTENTIAL TO RELEASE: Distance to surface			l	ĺ
	If sampling data do not support a release to surface				l
Ì	watershed, use the table below to assign a score]	Ì
1	below based on distance to surface water and flo	oa trequency.	ı		ì
}	Distance to surface water <2500 feet	500		}	
1	Distance to surface water >2500 feet, and:				ł
l	Site in annual or 10-yr floodplain	500			ŀ
1	Site in 100-yr floodplain	400			
l	Site in 500-yr floodplain	300)	
1	Site outside 500-yr floodplain	100			}
{	Site outside 500-yr noodplair	100			•
l	Optionally, evaluate surface water potential to rele	250		l	
1	according to HRS Section 4.1.2.1.2	ase	500		
Щ.	according to time Section 4.1.2.1.2				·
		LR =	500		
		Ln = {		ı	
LIF	KELIHOOD OF RELEASE	En =		Data	
	KELIHOOD OF RELEASE COUND WATER TO SURFACE WATER MIG		Score	Data Type	Refs
GR	OUND WATER TO SURFACE WATER MIG	RATION	Score		Refs
GR	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct	RATION observation	S∞re		Refs
GR	OUND WATER TO SURFACE WATER MIG	RATION observation d. assign a score	Score		Refs
GR 1.	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S	RATION observation d, assign a score SI Table 7.	Score		Refs
GR 1.	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S TE: Evaluate ground water to surface water migrati	RATION observation d, assign a score SI Table 7. on only for a	S∞re		Refs
GR 1.	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S	RATION observation d, assign a score SI Table 7. on only for a	Score		Refs
GR 1.	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S TE: Evaluate ground water to surface water migratic surface water body that meets all of the following of	RATION observation d, assign a score SI Table 7. on only for a conditions:	S∞re		Refs
GR 1.	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S TE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site	RATION observation d, assign a score SI Table 7. on only for a conditions:	Score		Refs
1. NO	OUND WATER TO SURFACE WATER MIG OBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on S TE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0.	ARATION I observation Id, assign a score SI Table 7. on only for a conditions: e sources having	Score		Refs
1. NO	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the	ARATION I observation Id, assign a score SI Table 7. on only for a conditions: e sources having	Score		Refs
9 NO 1) 2)	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body.	ARATION I observation d, assign a score SI Table 7. on only for a conditions: e sources having the source and the	Score		Refs
9 NO 1) 2)	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the	ARATION I observation d, assign a score SI Table 7. on only for a conditions: e sources having the source and the	Score		Refs
1) 2) 3)	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water.	ARATION I observation d, assign a score SI Table 7. on only for a conditions: e sources having the source and the	S∞re		Refs
1) 2) 3) Electrical	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water.	ARATION I observation d, assign a score SI Table 7. on only for a conditions: e sources having the source and the	S∞re		Refs
1) 2) 3) Electrical	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water.	ARATION I observation d, assign a score SI Table 7. on only for a conditions: e sources having the source and the	S∞re		Refs
1) 1) 2) 3) Election	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water. Vation of top of uppermost aquifer vation of bottom of surface water body. POTENTIAL TO RELEASE: Use the ground water	aRATION observation d, assign a score SI Table 7. on only for a conditions: e sources having e source and the bottom of the	Score		Refs
1) 1) 2) 3) Election	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water. Vation of top of uppermost aquifer vation of bottom of surface water body. POTENTIAL TO RELEASE: Use the ground water release. Optionally, evaluate surface water potentic	aRATION observation d, assign a score SI Table 7. on only for a conditions: e sources having e source and the bottom of the	Score		Refs
1) 1) 2) 3) Election	OUND WATER TO SURFACE WATER MIGOBSERVED RELEASE: If sampling data or direct support a release to surface water in the watershed of 550. Record observed release substances on STE: Evaluate ground water to surface water migratic surface water body that meets all of the following of A portion of the surface water is within 1 mile of site a containment factor greater than 0. No aquifer discontinuity is established between the above portion of the surface water body. The top of the uppermost aquifer is at or above the surface water. Vation of top of uppermost aquifer vation of bottom of surface water body. POTENTIAL TO RELEASE: Use the ground water	aRATION observation d, assign a score SI Table 7. on only for a conditions: e sources having e source and the bottom of the	Score		Refs

SURFACE WATER PATHWAY LIKELIHOOD OF RELEASE AND DRINKING WATER THREAT WORKSHEET (CONTINUED)

DRINKING WATER THREAT TARGETS	Score	Data Type	Refs
Record the water body type, flow, and number of people served by each drinking water intake within the target distance limit in the watershed. If there is no drinking water intake within the target distance limit, assign 0 to factors 3, 4, and 5.			
Intake Name Water Body Type Flow People Served			
Are any intakes part of a blended system? Yes No _			
indicates a drinking water intake has been exposed to a hazardous substance from the site, list the intake name and evaluate the factor score for the drinking water population (SI Table 8).			
Level I: people x 10 = Total =			
4. POTENTIAL CONTAMINATION TARGETS: Determine the number of people served by drinking water intakes for the watershed that have not been exposed to a hazardous substance from the site. Assign the population values from SI Table 9. Sum the values and multiply by 0.1.	0		
5. NEAREST INTAKE: Assign a score of 50 for any Level I Actual Contamination Drinking Water Targets for the watershed. Assign a score of 45 if there are Level II targets for the watershed, but no Level I targets. If no Actual Contamination Drinking Water Targets exist, assign a score for the Intake nearest the PPE from SI Table 9. If no drinking water intakes exist, assign 0.	\mathcal{O}		
6. RESOURCES: Assign a score of 5 if one or more surface water resource applies; assign 0 if none applies. • Imigation (5 acre minimum) of commercial food crops or commercial forage crops • Watering of commercial livestock • Ingredient in commercial food preparation • Major or designated water recreation area, excluding drinking	\bigcirc		
water use SUM OF TARGETS T=	0		

SI TABLE 9 (From HRS Table 4-14): DILUTION-WEIGHTED POPULATION VALUES FOR POTENTIAL CONTAMINATION FOR SURFACE WATER MIGRATION PATHWAY

			Number of people									
Type of Surface Water Body	Pop.	Nearest Intake	0	1 10 10	11 10 30	31 to 100	101 to 300	301 to 1,000	1,001 to 3,000	3,001 to 10,000	10,001 to 30,000	Pop. Value
Minimai Stream (<10 cfs)		20	0	4	17	53	164	522	1,633	5,214	16,325	
Small to moderate stream (10 to 100 cfs)		2	0	0.4	2	5	16	52	163	521	1,633	
Moderate to large stream (> 100 to 1,000 cfs)		0	0	0.04	0.2	0.5	2	5	16	52	163	
Large Stream to river (>1,000 to 10,000 cfs)		0	0	0.004	0.02	0.05	0.2	0.5	2	5	16	
Large River (> 10,000 to 100,000 cfs)		0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	16	
Very Large River (>100,000 cfs)		0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	
Shallow ocean zone or Great Lake (depth < 20 feet)		0	0	0	0.002	0.005	0.02	0.05	0.2	0.5	2	
Moderate ocean zone or Great Lake (Depth 20 to 200 feet)		0	0	0	0	0.001	0.002	0.005	0.02	0.05	0.2	
Deep ocean zone or Great Lake (depth > 200 feet)		0	0	0	0	0	0.001	0.003	0.008	0.03	0.08	
3-mile mixing zone in quiet flowing river (≥ 10 cfs)		10	0	2	9	26	82	261	817	2,607	8,163	
Nearest I	ntake =										Sum =	

leferences				

Human Food Chain Actual Contamination Targets Summary Table

On SI Table 10, list the hazardous substances detected in sediment, aqueous, sessile benthic organism tissue, or fish tissue samples (taken from fish caught within the boundaries of the observed release) by sample ID and concentration. Evaluate fisheries within the boundaries of observed releases detected by sediment or aqueous samples as Level II, if at least one observed release substance has a bioaccumulation potential factor value of 500 or greater (see SI Table 7). Obtain benchmark, cancer risk, and reference dose concentrations from SCDM. For FDAAL benchmarks, determine the highest percentage of benchmark obtained for any substance. For cancer risk and reference dose, sum the percentages for the substances listed. If benchmark, cancer risk, or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate this portion of the fishery as subject to Level I concentrations. If the percentages are less than 100% or all are N/A, evaluate the fishery as a Level II target.

Sensitive Environment Actual Contamination Targets Summary Table

On SI Table 11, list each hazardous substance detected in aqueous or sediment samples at or beyond wetlands or a surface water sensitive environment by sample ID. Record the concentration. If contaminated sediments or tissues are detected at or beyond a sensitive environment, evaluate the sensitive environment as Level II. Obtain benchmark concentrations from SCDM. For AWQC/AALAC benchmarks, determine the highest percentage of benchmark of the substances detected in aqueous samples. If benchmark concentrations are not available for a particular substance, enter N/A for the percentage. If the highest benchmark percentage equals or exceeds 100%, evaluate that part of the sensitive environment subject to Level I concentrations. If the percentage is less than 100%, or all are N/A, evaluate the sensitive environment as Level II.

isnery ID:	Sa	mple Type		Level		Level II	References	
Sample ID	Hazardous Substance	Conc. (mg/kg)	Benchmark Concentration (FDAAL)	% of Benchmark	Cancer Risk Concentration.	% of Cancer Risk Concentration	RfD	% of PID
			Highest Percent		Sum of Percents		Sum of Percents	
	1: SENSITIVE ENVI						RSHED Environment Valu	Je
Sample ID	Hazardous Substance	Conc (µg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References			
			Highest			• • •		
			Percent	<u>[</u>				
Environment R); Sa	mple Type		Leve		Level II	Environment Valu	J0
Sample ID	Hazardous Substance	Conc (μg/L)	Benchmark Concentration (AWQC or AALAC)	% of Benchmark	References	-		
						- -		
						-		
			Highest Percent			-		

SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT WORKSHEET

HUN	IAN FOOD CHAIN THREAT TA	ARGETS	Score	Type	Refs
	Record the water body type and flo target distance limit. If there is no fi	shery within the target			
	distance limit, assign a score of 0 at	tine bottom of this page.			
Fish	ery Name <u>Hog</u> Water Body <u>Μο</u> Βληρώ	devale Flow >10 cfs			
	Species Production_ Species Production_	lbs/yr			
}}	Species Production_	lbs/yr			
Fishe	ery Name Water Body	Flowcfs			
	Species Production_	lbs/yr			
	Species Production Production	lbs/yr			
Fishe	ery Name Water Body	Flowcfs			
	Species Production	lbs/vr			
	Species Production_ Species Production_	lbs/yr			ĺ
<u> </u>					
FOOI	O CHAIN INDIVIDUAL				
7.	ACTUAL CONTAMINATION FISHER	RIES:			
	If analytical evidence indicates that a hazardous substance with a bioaco or equal to 500 (SI Table 10), assign Level I fishery. Assign 45 if there is I fishery.	cumulation factor greater than a score of 50 if there is a			
8.	POTENTIAL CONTAMINATION FIS	HERIES:			
	If there is a release of a substance we greater than or equal to 500 to a wawithin the target distance limit, but the fisheries, assign a score of 20.	tershed containing fisheries			
	If there is no observed release to the for potential contamination fisheries the lowest flow at all fisheries within	from the table below using			
	Lowest Flow	FCI Value	ļ	ļ	ļ
	<10 ds	20	ì	İ	ĺ
	10 to 100 cfs	2	ļ	ŀ	
	>100 cfs, coastal tidal waters,		j	Ì	
	oceans, or Great Lakes 3-mile mixing zone in quiet	0 10	1	ļ	į
	is-mile mixing zone in quiet flowing river	''		l	
!			2		
		FCI Value =		1	
	•	SUM OF TARGETS T -	ಎ		

SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT WORKSHEET

When measuring length of wetlands that are located on both sides of a surface water body, sum both frontage lengths. For a sensitive environment that is more than one type, assign a value for each type.

ENVIR	ONMENTA	L THR	EAT TARGET	rs			Score	Data Type	Refs
Re ser If th	cord the watensitive environere is no se	er body t nment w nsitive e	ype and flow for vithin the target d nvironment within e bottom of the p	each su listance n the tar	(see SI	Table 12).			
	ment Name		Water Body Type		Flow	,			
	y Endangere		Large Rive			oco cis		ļ	
Federal	ly Threnten	<u> </u>	Moberate St	rcum		<u>ಾಂ</u> cis ರcis)	1	
Wet la				reum		Cis cis			
Detla			Large River		<u> </u>	ooo cis			
							,		
san env site valu	npling data o rironment has , record this i ue for the env	r direct o s been e nformati rironmer	ON SENSITIVE Endoservation indicated to a haze on on SI Table 1 on (SI Tables 13 and Indicated SI Tables Indicated SI Tab	ate any sardous s 1, and a and 14).	sensitive substand ssign a f	e from the actor			
Environn	nent Name		ment Type and SI Tables 13 & 14)			Product			
				x					
				×	=				
				x					
				x					
						Sum ≖			
10. PO	TENTIAL CO	NTAMIN	NATION SENSIT	IVE EN	/IRONM	ENTS:			1
Flow	Dilution Weig (SI Table 12)	ht	Environment Type Value (SI Tables	e and 13 & 14)	Pot. Cont.	Product			
>1003 cts	.001	x		75_x	0.1 =	. 0075			
সা≎েও cts	.001	×		75 ×	0.1 =	.0075			
フロ cfs	, 1	x		25 x	0.1 =	, 25			
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フ1000 cts	.001	×		25 x	0.1 =	.0025	,7675		
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SI TABLE 12 (HRS Table 4-13): SURFACE WATER DILUTION WEIGHTS

Type of Surface Water Body		Assigned Dilution Weight
Descriptor	Flow Characteristics	
Minimal stream	< 10 cfs	1
Small to moderate stream	10 to 100 cfs	0.1
Moderate to large stream	> 100 to 1,000 cfs	0.01
Large stream to river	> 1,000 to 10,000 cfs	0.001
Large river	> 10,000 to 100,000 cfs	0.0001
Very large river	> 100,000 cfs	0.00001
Coastal tidal waters	Flow not applicable; depth not applicable	0.001
Shallow ocean zone or Great Lake	Flow not applicable; depth less than 20 feet	0.001
Moderate depth ocean zone or Great Lake	Flow not applicable; depth 20 to 200 feet	0.0001
Deep ocean zone or Great Lake	Flow not applicable; depth greater than 200 feet	0.000005
3-mile mixing zone in quiet flowing river	10 cfs or greater	0.5

SI TABLE 13 (HRS TABLE 4-23): SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

Critical habitat for Federal designated endangered or threatened species Marine Sanctuary National Park Designated Federal Wilderness Area Ecologically important areas identified under the Coastal Zone Wilderness Act Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act Critical Areas identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lakes) National Monument (air pathway only) National Seashore Recreation Area National Lakeshore Recreation Area Habitat known to be used by Federal designated or proposed endangered or threatened species National or State Wildlife Refuge Unit of Coastal Barrier Resources System Coastal Barrier (undeveloped) Federal land designated for the protection of natural ecosystems Administratively Proposed Federal Wilderness Area Spawning areas critical for the maintenance of fish/shellfish species within a river system, bay, or estuary Migratory pathways and feeding areas critical for the maintenance of anadromous fish species within river reaches or areas in takes or coastal tidal waters in which the fish spend extended periods of time Ferrestrial areas utilized by large or dense aggregations of vertebrate animals (semi-aquatic foragers) for breeding	SENSITIVE PRIVIDONIMENT	ASSIGNED VALUE
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ederally designated Scenic or Wild River		
ederally designated Scenic or Wild River	Coastal Barrier (partially developed)	
		25
	State designated Scenic or Wild River	
	State designated Natural Area	
	Particular areas, relatively small in size, important to maintenance of unique biotic communities	
	State designated areas for the protection of maintenance of aquatic life under the Clean Water	5
	Act	
Vetlands See SI Table 14 (Surface Water Pathway) or SI Table 23 (Air Pathway)	Wetlands See Sl Table 14 (Surface Water Pathway) or Sl Table 23 (Air Pathway)	

SI TABLE 14 (HRS TABLE 4-24): SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned	Value
Less than 0.1 mile	0	<u> </u>
0.1 to 1 mile	25	
Greater than 1 to 2 miles	50	
Greater than 2 to 3 miles	75	
Greater than 3 to 4 miles	100	
Greater than 4 to 8 miles	150	
Greater than 8 to 12 miles	250	
Greater than 12 to 16 miles	350	
Greater than 16 to 20 miles	450	
Greater than 20 miles	500	

SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

WASTE CHARACT	Score			
 If an Actual Cont chain, or environ the calculated ha whichever is great 	100			
15. Assign the highest Table 3 (no observed characterization fath hazardous waste of characteristics scotteristics)	WC Score (from Table)			
	Substance Value	HWQ	Product	(Menimum_et_100)
Drinking Water Threat Toxicity/Persistence		x		
Food Chain Threat Toxicity/Persistence Bioaccumulation	5000	x 100	. 5x105	18
Environmental Threat Ecotoxicity/Persistence/ Ecobioaccumulation	2000	x 100	= 2×10 ⁵	18
Product 0 >0 to <10 10 to <100 100 to <1,00 1,000 to <1(10,000 to <1(1E + 05 to <1 1E + 07 to <1 1E + 09 to <1 1E + 10 to <1 1E + 11 to <1 1E + 12 or gr	0,000 E + 05 E + 06 E + 07 E + 08 E + 09 E + 10 E + 11 E + 12	WC Score 0 1 2 3 6 10 18 32 56 100 180 320 560 1000		

SURFACE WATER PATHWAY THREAT SCORES

Threat	Likelihood of Release (LR) Score	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score <u>LR x T x WC</u> 82,500
Drinking Water				(maximum of 100)
Human Food Chain	500	2	18	(maximum of 100) 。 え / 8 よ
Environmental	500	.7675	18	(maximum of 60) • 0837

SURFACE WATER PATHWAY SCORE (Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

(maximum of 100)

SOIL EXPOSURE PATHWAY

If there is no observed contamination (e.g., ground water plume with no known surface source), do not evaluate the soil exposure pathway. Discuss evidence for no soil exposure pathway.

Soil Exposure Resident Population Targets Summary

For each property (duplicate page 35 as necessary):

If there is an area of observed contamination on the property and within 200 feet of a residence, school, or day care center, enter on Table 15 each hazardous substance by sample ID. Record the detected concentration. Obtain cancer risk, and reference dose concentrations from SCDM. Sum the cancer risk and reference dose percentages for the substances listed. If cancer risk or reference dose concentrations are not available for a particular substance, enter N/A for the percentage. If the percentage sum calculated for cancer risk or reference dose equals or exceeds 100%, evaluate the residents and students as Level II. If both percentages are less than 100% or all are N/A, evaluate the targets as Level II.

SI TABLE 15: SOIL EXPOSURE RESIDENT POPULATION TARGETS

F	Residence ID:_			Level I		III	Population	····	
	Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RfD	% of RfD	Toxicity Value	References
L				Highest Percent		Sum of Percents		Sum of Percents	
F	Residence ID: _			Level I	Leve	111	Population		
	Sample ID	Hazardoùs Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RID	% of RfD	Toxicity Value	References
안									
35									
L				Highest Percent		Sum of Percents		Sum of Percents	
1	Residence ID:_			Level I	Leve	111	Population		
	Sample ID	Hazardous Substance	Conc. (mg/kg)	Cancer Risk Concentration	% of Cancer Risk Conc.	RfO	% of RID	Toxicity Value	References
E									
E				Highest		Sum of		Sum of	
				Percent		Percents		Percents	L <u></u>

SOIL EXPOSURE PATHWAY WORKSHEET RESIDENT POPULATION THREAT

LIK	KELIHOOD OF EXPOSURE	Score	Data Type	Refs
1.	observed contamination (depth of 2 feet or less), assign a score of			
	550; otherwise, assign a 0. Note that a likelihood of exposure score of 0 results in a soil exposure pathway score of 0.			
	LE s			
			j	
	RGETS			
2.	RESIDENT POPULATION: Determine the number of people	Ì	i i	
	occupying residences or attending school or day care on or within 200 feet of areas of observed contamination (HRS section 5.1.3).			
}	Level I: people x 10 =			
. .	Level II: people x 1 = Sum =			
3.	RESIDENT INDIVIDUAL: Assign a score of 50 if any Level I resident population exists. Assign a score of 45 if there are Level II targets but no Level I targets. If no resident population exists (i.e., no Level I or Level II targets), assign 0 (HRS Section 5.1.3).			
4.	WORKERS: Assign a score from the table below for the total			
ł	number of workers at the site and nearby facilities with areas of			
1	observed contamination associated with the site.			
	Number of Workers Score		1	ì
l	0 0			
	1 to 100 5 101 to 1,000 10			
ļ	>1,000 15			- 1
ł				
5.	TERRESTRIAL SENSITIVE ENVIRONMENTS: Assign a value for			
	each terrestrial sensitive environment (Si Table 16) in an area of			
	observed contamination.			
	Terrestrial Sensitive Environment Type Value	ļ .		1
	Terrestrial Sensitive Environment Type Value			Ì
			1	1
]]
		ļ	ŀ	
	Sum =			
6.	RESOURCES: Assign a score of 5 if any one or more of the			}
	following resources is present on an area of observed			
	contamination at the site; assign 0 if none applies.			1
	Commercial agriculture Commercial silviculture]		
	Commercial livestock production or commercial livestock	1		
_	grazing			
	Total of Targets T=			

SI TABLE 16 (HRS TABLE 5-5): SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

TERRESTRIAL SENSITIVE ENVIRONMENT	ASSIGNED VALUE
Terrestrial critical habitat for Federal designated endangered or threatened species National Park Designated Federal Wilderness Area National Monument	100
Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species National Preserve (terrestrial) National or State terrestrial Wildlife Refuge Federal land designated for protection of natural ecosystems Administratively proposed Federal Wilderness Area Terrestrial areas utilized by large or dense aggregations of animals (vertebrate species) for breeding	75
Terrestrial habitat used by State designated endangered or threatened species Terrestrial habitat used by species under review for Federal designated endangered or threatened status	50
State lands designated for wildlife or game management State designated Natural Areas Particular areas, relatively small in size, important to maintenance of unique biotic communities	25

SOIL EXPOSURE PATHWAY WORKSHEET NEARBY POPULATION THREAT

	LIKELIHOOD OF EXPOSURE	Score	Type	Ref.
	7. Attractiveness/Accessibility (from SI Table 17 or HRS Table 5-6) Area of Contamination (from SI Table 18 or HRS Table 5-7) Value			
L	Likelihood of Exposure (from Si Table 19 or HRS Table 5-8)			
	LE	=		
	TARGETS	Score	Data Type	Ref.
	 Assign a score of 0 if Level I or Level II resident individual has bee evaluated or if no individuals live within 1/4 mile travel distance of an area of observed contamination. Assign a score of 1 if nearby 			
	population is within 1/4 mile travel distance and no Level I or Leve II resident population has been evaluated.	·		
1				

SI TABLE 17 (HRS TABLE 5-6): ATTRACTIVENESS/ACCESSIBILITY VALUES

Area of Observed Contamination	Assigned Value
Designated recreational area	100
Regularly used for public recreation (for example, vacant lots in urban area)	75
Accessible and unique recreational area (for example, vacant lots in urban area)	75
Moderately accessible (may have some access improvements—for example, gravel road) with some public recreation use	50
Slightly accessible (for example, extremely rural area with no road improvement) with some public recreation use	25
Accessible with no public recreation use	10
Surrounded by maintained fence or combination of maintained fence and natural barriers	5
Physically inaccessible to public, with no evidence of public recreation use	0

SI TABLE 18 (HRS TABLE 5-7): AREA OF CONTAMINATION FACTOR VALUES

Total area of the areas of observed contamination (square feet)	Assigned Value
≤ to 5,000	5
> 5,000 to 125,000	20
> 125,000 to 250,000	40
> 250,000 to 375,000	60
> 375,000 to 500,000	80
> 500,000	100

SI TABLE 19 (HRS TABLE 5-8): NEARBY POPULATION LIKELIHOOD OF EXPOSURE FACTOR VALUES

AREA OF CONTAMINATION		ATTRA	CTIVENESS/A	CCESSIBILITY	FACTOR V	ALUE	
FACTOR VALUE	100	75	50	25	10	5	0
100	500	500	375	250	125	50	0
80	500	375	250	125	50	25	0
60	375	250	125	50	25	5	C
40	250	125	50	25	5	5	(
20	125	50	25	5	5	5	
5	50	25	5	5	5	5	(

SI TABLE 20 (HRS TABLE 5-10): DISTANCE-WEIGHTED POPULATION VALUES FOR NEARBY POPULATION THREAT

Travel Distance			Number of people within the travel distance category											
Category (miles)	Pop.	0	1 10 10	11 to 30	31 to 100	101 10 300	301 to 1,000	1,001 to 3,000	3,001 to 10,001	10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	300,001 to 1,000,000	Pop.
Greater than 0 to $\frac{1}{4}$		0	0.1	0.4	1.0	4	13	41	130	408	1,303	4,081	13,034	
Greater than $\frac{1}{4}$ to $\frac{1}{2}$		0	0.05	0.2	0.7	2	7	20	65	204	652	2,041	6,517	
Greater than $\frac{1}{2}$ to 1		0	0.02	0.1	0.3	1	3	10	33	102	326	1,020	3,258	
									Reference	CO(S)			Sum =	

SOIL EXPOSURE PATHWAY WORKSHEET (concluded)

WASTE CHARACTERIST	ICS		
10. Assign the hazardous	waste quantity score calcu	lated for soil exposure	
11. Assign the highest toxi	icity value from SI Table 16		
	d hazardous waste quantity score from the table below: WC Score 0 1 2 3 6 10 18 32 56 100		WC =
RESIDENT POPULATION			
(Likelihood of Exposure, Ques Targets = Sum of Questions 2,		82,500	
NEARBY POPULATION T	HREAT SCORE:		
(Likelihood of Exposure, Ques Targets = Sum of Questions 8,		LE X T X WC 82,500	
SOIL EXPOSURE PATHW Resident Population Three		n Threat	(Maximum of 100)

SITE SCORE CALCULATION	S	S ²
GROUND WATER PATHWAY SCORE (SGW)	0	
SURFACE WATER PATHWAY SCORE (Ssw)	. 3019	.09//
SOIL EXPOSURE (SS)	0	
AIR PATHWAY SCORE (SA)	0	.—-
SITE SCORE $\sqrt{\frac{S_{GW}^2 + S_{SW}^2 + S_S^2 + S_A^2}{4}}$,1510

COMMENTS	 		
		•	
	 		· · · · · · · · · · · · · · · · · · ·

References:

- 1) HRS
- 2) SCDM 6/30/94 version
- 3) Preliminary Assessment
- 4) May 11, 1989 Memorandum from Alicia A. Finch to Bernard E. Cox
- 5) Certified letter dated Sept. 18, 1991 (Closure of drum storage area)
- 6) Certified letter dated May 10, 1991 (Drum storage area closure plan)
- 7) Telephone conversation with Tom Hankins (Cytec Environmental Rep.)
- 8) Geology Report
- 9) FRDS II, ADEMs Public Drinking Water Database
- 10) U.S.G.S. 7.5 minute series topographic maps, Mobile and Chickasaw Quadrangles
- 11) U.S.G.S. Water Resources Data, Alabama Water Year 1990
- 12) Low-Flow and Flow-Duration Characteristics of Alabama Streams
- 13) U.S. Fish and Wildlife Service, Federally listed species information

ADEM





Guy Hunt Governor

Section Chief

Division Chief

May 11, 1989

1751 Cong. W. L. Dickinson Drive

Leigh Pegues, Director

Montgomery, AL 36130

205/271-7700

Field Offices:

Unit 806, Building 8 225 Oxmoor Circle Birmingham, AL

35209

205/942-6168

P.O. Box 953 Decatur, AL 35602

205/353-1713

2204 Perimeter Road Mobile, AL 36615

205/479-2336

MEMORANDUM

OT:

Bernard E. Cox, Jr., Chief &

ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Hazardous Waste Branch

Land Division

THROUGH:

Steve O. Jenkins, Chief

Compliance Section Hazardous Waste Branch

FROM:

Alicia A. Finch Compliance Section Hazardous Waste Branch

RE:

Trip Report - American Cyanamid Company

USEPA ID No. ALD 008 175 408

On March 14, 1989, Alicia A. Finch of the Hazardous Waste Branch inspected American Cyanamid Company. The purpose of the inspection was to determine the facility's compliance with the Chapter 14-6 interim status permit standards contained in Division 14 of the ADEM Administrative Code.

The contact was Mr. Tom Hankins, Safety Manager. The inspection began at 4:15 p.m.

American Cyanamid Company is a chemical manufacturer. Some of the products manufactured are as follows: (1) Polyacrylamide in Water-in-Oil Emulsion is used for wastewater treatment and as a treatment of paper fibers; (2) Cypres 48 is used as a coating on paper utensils; (3) Polyacrylamide in Water/Accostrength 711 is used as a paper coating; (4) Aluminum Sulfate is used for water purification and as a paper coating. These are just a few of the products produced by the facility.

The hazardous waste produced at the facility is generated from the spill of materials which are used to make the above mentioned products. Any defective finished product is tested and then shipped as hazardous waste if there is need to do so.

Some of the materials used by Cyanamid to produce their products are toluene, styrene, acrylic acid, ammonium hydroxide, sulfuric acid, and formaldehyde.

Docked 33

The generation of hazardous waste is very rare at the facility. Cyanamid has submitted a closure plan for the container storage area which is the facility's only RCRA unit. The area will later be converted to a 90-day storage area. At the time of inspection, there was no waste in the storage area.

The facility has a contingency plan but all of the RCRA related material was not in one place at the time of inspection. I did not find any information on arrangements with local authorities; a complete information on the names, addresses, and phone numbers of the emergency coordinators; or a complete list of the location and description of emergency equipment.

Mr. Hankins informed me that copies of the contingency plan have not been sent to local authorities.

A "No Smoking" sign will have to be placed in the storage area after it is converted to a 90 day storage area. No wastes are in the area as of now.

AAF/kap

File: TSD



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



Guy Hunt Governor

Leigh Pegues, Director

1751 Cong. W. L. Dickinson Drive Montgomery, AL

36130 (205) 271-7700

FAX 271-7950 270-5612

Field Offices:

110 Vulcan Road Birmingham, AL 35209

(205) 942-6168 FAX 941-1603

P.O. Box 953 Decatur, AL 35602 (205) 353-1713 FAX 340-9359

2204 Perimeter Road Mobile, AL 36615 (205) 479-2336 FAX 479-2593 September 18, 1991

CERTIFIED MAIL P 624 156 849 RETURN RECEIPT REQUESTED

Mr. R. B. Melton

American Cyanamid Company

Post Office Box 1924 Mobile, Alabama 36633

Dear Mr. Melton:

Re: Certification of Closure

USEPA Identification Number ALD 008 175 408

The Department has reviewed American Cyanamid's Certification of Closure dated August 19, 1991. The Report of Closure Activities, which was dated May 10, 1991, was resubmitted to the Department as requested to include the correctly signed certification. Upon examination of the report and certification, it appears that the Hazardous Waste Drum Storage Area has been closed to satisfy the requirements for clean closure in accordance with Rule 335-14-6-.07 of the ADEM Administrative Code.

The closed storage area may be used as a generator (less than 90 days) storage area. American Cyanamid is also released from the financial requirements of Rule 335-14-6-.08 of the ADEM Administrative Code.

Should questions arise concerning this matter, please contact Ms. Alicia A. Finch of the RCRA Compliance Branch at (205)271-7726.

Sincerely.

Leigh Pegues Director

LP/AAF/sdm:#1420

c: Mr. John Dickinson, Chief Waste Compliance Section USEPA Region IV

> Ms. Janet F. Lassitter RCRA Compliance Branch Land Division

Mr. Abe Oberkor Special Services Unit Land Division

Wicht 52

rinted on Redyc ed Pager



Reference 4

American Cyanamid Company P.O. Box 1924 Mobile, AL 36633 (205) 457-6601

May 10, 1991

CERTIFIED MAIL - RETURN RECEIPT



Mr. Steve O. Jenkins, Chief RCRA Compliance Branch Land Division Alabama Department of Environmental Management 1751 Cong. W. L. Dickinson Drive Montgomery, AL 36130

Re: Report of Closure Activities
USEPA Identification Number ALD 008 175 408

Dear Mr. Jenkins:

Enclosed is the documentation for clean closure of the American Cyanamid Company, Mobile, AL Plant Hazardous Waste Drum Storage Area. Clean closure for all constituents except Formaldehyde had previously been accepted in a letter from ADEM dated October 29, 1990. In that letter Cyanamid was directed to reclean the Storage Area and resample for Formaldehyde. This work was preformed during December 1990.

The sampling and analytical program was conducted by Thompson Engineering Testing, Inc. Their report dated February 15, 1991, summarizing the sampling of the pad and back ground soil and analysis of these samples for Formaldehyde is enclosed. The Thompson Engineering Report documents that the results of all samples taken were less than the detection limits for the analysis.

Also enclosed is the letter from Mr. Emery E. Baya, P.E. (Alabama Registration Number 11290) dated April 24, 1991. This letter certifies that the drum storage area closure activities were performed in accordance with the provisions of the approved closure plan.

File: Mobile Co; American Cyanamid; TSD

fale efter # 49

Ducket C





Mr. Steve O. Jenkins

These documents are submitted as evidence of the final clean closure of the Hazardous Waste Storage Area at Cyanamid's Mobile, AL Plant. Upon ADEM's acceptance of the attached clean closure documents, the Mobile Plant will no longer be classified as a RCRA Hazardous Waste Storage Facility. We do, however, wish to retain our EPA Identification Number as a generator only.

If you have any additional questions please contact me at 205-457-6601.

Sincerely,

AMERICAN CYANAMID COMPANY

T.E. Hankins

Manager Process Safety

TEH

Enclosures

THOMPSON ENGINEERING TESTING, INC.

Geotechnical, Materials and Environmental Engineers • Laboratories

Main Office and Laboratories
3707 Cottage Hill Road • 205/666-2443

Nondestructive Testing and Examination 4234 Halls Mill Road • 205/666-1435



P.O. Drawer 9637

Mobile, Alabama 36691

APR 26 1991

April 24, 1991

American Cyanamid Company P.O. Box 1924 Mobile, Alabama 36633

Attention: Mr. Tom Hankins

Subject: Drum Storage Area Closure

Plan Certification

THOMPSON Project No.: A89-083

Gentlemen:

Please reference Thompson Engineering Testing, Inc. (THOMPSON) report dated February 15, 1991 and prior related correspondence.

Reference is also made to American Cyanamid Company letter dated April 12, 1991 which provided documentation of the disposition of wash water and bauxite ore residue generated from the storage area concrete slab closure operations. It is our understanding that American Cyanamid Company has determined that, since the wash water and bauxite residue were used in product formulation and not declared a solid waste, the disposition of these materials satisfies applicable Federal and State requirements.

Remaining aspects of the closure plan performance and analytical test results have been documented in referenced prior reports.

Page 2 American Cyanamid Company April 24, 1991

CERTIFICATION

The undersigned hereby certifies that the drum storage area closure activities were performed in accordance with the provisions of the approved closure plan.

If there are any questions or if further information is needed, please advise.

Respectfully,

THOMPSON ENGINEERING TESTING, INC.

Emery E. Baya, P.E.

V.P., Environmental Services Alabama Registration No. 11290

EEB/mc:91112

THOMPSON ENGINEERING TESTING, INC.

Geotechnical, Materials and Environmental Engineers • Laboratories

Main Office and Laboratories
3707 Cottage Hill Road • 205/666-2443

Nondestructive Testing and Examination 4234 Halls Mill Road • 205/666-1435



P.O. Drawer 9637

Mobile, Alabama 36691

RECEIVED

February 15, 1991

FEB 22 1991

MOBILE PLANT

American Cyanamid Company P.O. Box 1924 Mobile, AL 36633

Attn: Mr. Tom Hankins

Subject: Drum Storage Area Closure

Formaldehyde Analyses of Wipe

Tests and Soil Samples

THOMPSON Project No.: A89-083

Gentlemen:

Please reference the Drum Storage Area Closure Plan dated February 10, 1989 (revised July 14, 1989) and approved by the Alabama Department of Environmental Management (ADEM). Reference is also made to our report dated December 4, 1989 which presented results of initial storage area sampling and, as well, subsequent correspondence including: (1) ADEM's letter of March 29, 1990, (2) American Cyanamid Company's letter of July 5, 1990, and, (3) ADEM's letter of October 29, 1990.

In response to ADEM and American Cyanamid Company agreements as outlined in the referenced correspondence, Thompson Engineering Testing, Inc. (THOMPSON) was authorized to perform additional formaldehyde analyses of wipe test and soil samples. This report presents the results of this additional testing.

On December 18, 1990 the undersigned met with Mr. Tom Hankins of American Cyanamid Company during the additional pressure washing/cleaning operations of the former drum storage area slab, which was being performed by Reidel Peterson Services, Inc. In accordance with the referenced Closure Plan, rinse water from the slab washing process was to be collected and stored on an interim basis pending subsequent wipe test analytical results. During that meeting, locations for "baseline/background" wipe test samples were selected from the concrete slab located between Tank Nos. 6 and 8 in the Alum Settling Tank Building which is separate from and west of the Bauxite Storage building containing the former drum storage area. The location for a "background/baseline" soil sample was also selected, that being outside and between the Bauxite

Storage and Alum Settling Tank buildings. The "baseline/background" soil sample location was for the purpose of comparison with a soil sample to be collected from a discontinuity in the drum storage area slab at its north end (the same location sampled during the referenced prior analytical testing).

Sampling was performed on December 19, 1990 by Michael Nance of Savannah Laboratories and Environmental Services, Inc. A description of the sampling and the results of analyses (Log No. MO-15145) are presented in the attached report.

All drum storage area and background/baseline wipe test formaldehyde analyses were reported as less than 5.0 ug/100cm² (micrograms per 100 square centimeters). The drum storage area and background/baseline soil formaldehyde analyses were reported as less than 200 ug/kg dw (micrograms per kilogram dry weight), which is equivalent to less than 0.2 mg/kg dw (parts per million-ppm).

These analytical results, when assessed according to the Closure Plan, indicate that acceptance criteria are satisfied. Accordingly, we are prepared to issue the Professional Engineer's certification pending documentation of final acceptable disposition of the storage area rinse water collected during the slab washing process.

If there are any questions or if further information is needed, please advise.

Respectfully,

THOMPSON ENGINEERING TESTING, INC.

Emery E. Baya, P.E.

V.P., Environmental Services Alabama Registration No. 11290

EEB/cs

Attachment (as stated)

January 29, 1991

Mr. Emery E. Baya Thompson Engineering & Testing, Inc. P. O. Drawer 9637 Mobile, AL 36609

> RE: Results of formaldehyde sampling and analysis at the drum storage area, American Cyanamid Company; Mobile, Alabama

Dear Mr. Baya:

Formaldehyde determinations were performed on wipe tests and soils collected December 19, 1990 from the American Cyanamid Company in Mobile, Alabama.

Five wipe tests (S-4, S-5, S-6, S-7, & S-8) were collected from the concrete slab of the drum storage area located in the Bauxite Storage Building. Three "background" wipe tests (S-1, S-2, & S-3) were collected from a concrete surface in the Alum Plant Settling Building.

The wipe test sampling kit was prepared in the laboratory by placing a two-inch by two-inch sterile gauze pad in a four ounce wide mouth glass container, five milliliters of deionized water was added to saturate the pad, the container was then capped with a teflon lined lid until ready to sample. An extra kit was prepared, identified as a trip blank and analyzed with the eight wipe test samples.

At each wipe test location a 100 cm2 area of the concrete surface was sampled. The specified area was defined by placing a pre-cleaned teflon template on the concrete slab. The saturated gauze pad was removed from the sealed container with gloved hands. The entire exposed concrete surface within the teflon template was sampled with the saturated pad using overlapping vertical wipe strokes, the area was then sampled with overlapping horizontal strokes (i.e. second wipe coverage oriented 90 degree to initial coverage). The pad was returned to the labeled glass container and sealed with the teflon lined lid. The vinyl gloves were discarded after each sample. The teflon template was wiped clean with a wet towel and rinsed with DI water between samples.

The sample locations for the wipe tests in the drum storage area were determined from the schematic of the previous sample locations (10/17/89). The background samples were located on a clean concrete slab in the Alum Plant settling building (see drawing with table of sample coordinates).

The order of sampling alternated back and forth from the drum storage area to the background slab until all eight samples were collected (time of each sample is given in the table with location coordinates).

The soils were sampled to a 6 inch depth utilizing a stainless steel hand auger. Prior to sampling, the top 2-3 inches of soil was removed with an aluminum scoop and discarded. A background soil sample (S-10) was located adjacent to the background slab east of the Alum Plant Building. The soil sample underlying the drum storage slab (S-9) was obtained from the "hole in pad" located at the north end of the slab.

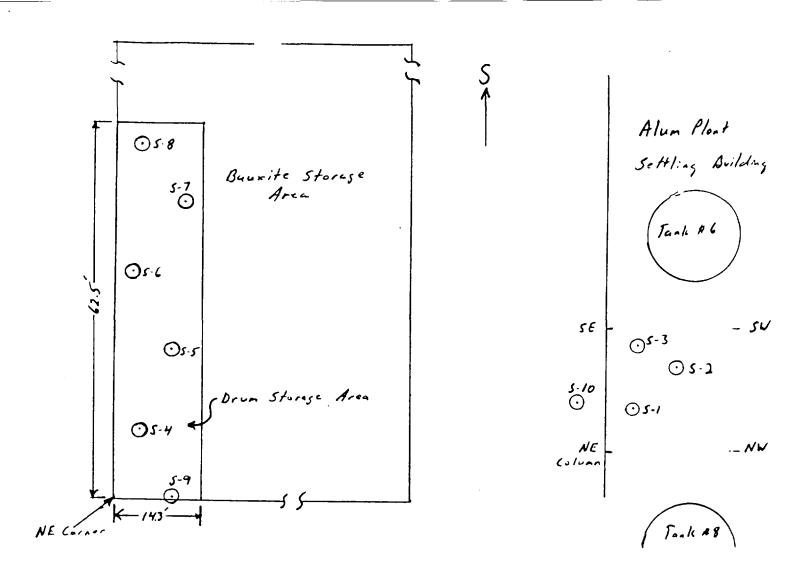
At the time of sampling the wind direction was from the northeast, whereas the formaldehyde discharge is northwest of the drum storage area. There was no formaldehyde odor detected during sampling. It was noted by Mr. Tom Hankins of American Cyanamid that the wind was out of the NW at 1500 hrs. the previous afternoon (12-18-90), following the cleaning of the drum storage slab that morning.

If you have any questions concerning sample collection, call me.

Sincerely,

Michael Nance

MN:rs



Drum Storage Area

Background - Alum Plant

Time	Sample Type	Sample I.D.	Coordinates from NE Corner (ft)	Sample I.D.	Coordinates from NE Column (ft)
1507	Wipe '	S-4	12's, 4'w		
1510	Wipe		·	S-1	7's, 4'w
1512	Wipe	S-5	25's, 9'w		•
1515	Wipe	,	•	S-2	13's, 11'w
1518	Wipe	S-6	38's, 2'w		·
1520	Wipe		,	S-3	17's, 5'w
1523	Wipe	S-7	49's, 11'w		·
1526	Wipe	S-8	59's, 4'w		
1544	Soil		,	S-10	8's, 5'e
1553	Soil	S-9	0 s, 9.5w	"Hole in Pad"	,

LOG NO: MO-15145

Received: 19 DEC 90

Mr. Emery E. Baya, P.E. Thompson Engineering Testing, Inc. P.O. Drawer 9637 Mobile, Alabama 36691

Project: American Cyanamid/A89-083

REPORT OF RESULTS

Page 1

LOG NO	SAMP	LE DI	ESCRI	PTION ,	soLID C	R SEMISO	LID SA	MPLES		SAMPLED BY
15145-1 15145-2 15145-3 15145-4 15145-5	S-2 S-3 S-4	Wipe Wipe Wipe	Test Test Test	12/19/ 12/19/ 12/19/	•	ground)			Savannah	Laboratories
PARAMETER					15145-1	1514	5-2	15145-3	15145-4	15145-5
Formaldehyde	e (A1	31),	ug/10	00cm2	<5.0	<5	5.0	<5.0	<5.0	<5.0

REFERENCE: EPA SW-846 3rd Edition, 1986

Formaldehyde by HPLC

LOG NO: MO-15145

Received: 19 DEC 90

Mr. Emery E. Baya, P.E. Thompson Engineering Testing, Inc. P.O. Drawer 9637 Mobile, Alabama 36691

Project: American Cyanamid/A89-083

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , SOLID OF	R SEMISOLID SAI	MPLES		SAMPLED BY
15145-6 15145-7 15145-8 15145-9	S-6 Wipe Test 12/19/90 (Drum S-7 Wipe Test 12/19/90 (Drum S-8 Wipe Test 12/19/90 (Drum Trip Blank 12/19/90	Storage Area)		Savannah L	aboratories
PARAMETER		15145-6	15145-7	15145-8	15145-9
Formaldehyde	e (A131), ug/100cm2	<5.0	<5.0	<5.0	<5.0

REFERENCE: EPA SW-846 3rd Edition, 1986 Formaldehyde by HPLC

LOG NO: M0-15145

Received: 19 DEC 90

Mr. Emery E. Baya, P.E. Thompson Engineering Testing, Inc. P.O. Drawer 9637 Mobile, Alabama 36691

Project: American Cyanamid/A89-083

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLE	S		SAMPLED BY
15145-10 15145-11	S-9 Soil Test 12/19/90 S-10 Soil Test 12/19/90		Savannah	Laboratories
PARAMETER	1514:	5-10	15145-11	
Formaldehyd	e (A131), ug/kg dw	<200	<200	

REFERENCE:

SW-846 3rd Edition, 1986

Formaldehyde by HPLC

sse L. Smith

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC. ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD								Mobile Division 900 Lakeside Drive Mobile, AL 36609 Phone: (205) 666-6633													
JOB NO. PO NO. PROJECT NAME AMCY A 89-083						ρA	UEC	ous					NON-AQUEOUS					7	PACE)F
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SAMPLE ID SAMPLE ID			NUMB	Liter	Liter Amber	120ml Amber	40ml Voc Vial	20ml Sc	1 Gallo	Liter P	500m1 P	250ml Plastic	Liter W	Liter W	500ml w	500ml w	120ml A	407	anal	sis	
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12-19-20 1553 5-9 50:1 Toss			2:			2															·—·-
12-19-20 15-44 5-10 So: 1 Test RELLINQUISHED NY: (SICNATHIE) DATE TIME RECEIV	<u></u>		2	TUD	E)	2				10	ATE	/TIME	DE	INC	1115	UED.	RV.	(\$1	GNATURE)	DATH	/TIME
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		-										····									

FIELD OPERATIONS DIVISION TELEPHONE CONVERSATION RECORD

 Date:
 6/30/95

 Time:
 11:05

ADEM REP. Chris Smith
Conversation with: Tom Hankins

Regarding: American Cyanamide
Facility: American Cyanamide

Summary:

I called Mr. Hankins to ask about the Hazardous Waste Drum Storage area, spills and on site disposal. Mr. Hankins said, when the drum storage area was used it had a concrete curb containment and a roof. Mr. Hankins also said there have been some spills on site, most of which were oil; however, in 1990 they had an Aluminum sulfate spill in Hog Bayou. All spills have been documented and remediated. They have 103 workers on site. Throughout the years hazardous waste has been disposed off site. The two surface impoundments are used for water recovering and recycling. Water is pumped into the impoundment. When full the next impoundment is used. Water is recovered and the impoundment is dredged. Sludge then is landfilled.



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



Leigh Pegues, Director

November 24, 1993

Jim Folsom Governor

Mailing Address:

PO BOX 301463 MONTGOMERY AL **MEMORANDUM**

36130-1463

TO:

John Chitwood, Chief Compliance Branch

Physical Address:

1751 Cong. W. L. Dickinson Drive Montgomery, AL

FROM:

E. Mohamed Sylla, Geologist

Hydrogeology Unit

R

(205) 271-7700 FAX 271-7950 270-5612

36109-2608

RE:

CERCLA Site Investigation Prioritization

Hickory Street Landfill, Mobile County, Alabama

EPA I.D. No. ALD980842637

SUMMARY

Field Offices:

110 Vulcan Road Birmingham, AL 77209-4702 5) 942-6168 FAX 941-1603

400 Well Street P.O. Box 953 Decatur, AL 35602-0953 (205) 353-1713 FAX 340-9359

2204 Perimeter Road Mobile, AL 36615-1131 (205) 450-3400 FAX 479-2593 On November 10, 1993, a site investigation prioritization (sip) was initiated for the Hickory Street Landfill in Mobile County, Alabama, at the request of ADEM Field Operations Division. The investigation included a background and literature review, and a site evaluation. An inventory of wells was conducted and none were found within a four mile radius. A public water well owned by the Saraland Water Service is the closest well and is located about 6 miles north of the site.

The landfill monitoring well system consists of four wells. Monitoring wells 2, 3, and 4 are located downgradient of the landfill in very close proximity to a saturated marsh area. Monitoring well MW I is an upgradient well considering its depth and location. None of the MWs was properly maintained. Review of the monitoring well data indicates contamination of groundwater has occured.

A small area of the landfill is not vegetated and revealed an eroded surface. Waste was not exposed in this area.

LOCATION

The Hickory Street landfill site is located in Township 4 South, Range I East (Figure 1) and occupies approximately 60 acres. The site coordinates are 30 degrees 42' 30" N latitude and 88 degrees 03' 00" W longitude. The site can be accessed from the north end of Hickory Street, Mobile, Alabama.

SURFACE HATER AND TOPOGRAPHY

The Hickory Street Landfill borders Onemile Creek on its eastern boundary while it is bordered on the west by saturated marsh area and bordered by a poor residential area to the south (Figure 2).

Threemile Creek, located west of the site, flows in a north easterly direction for about 3/4 mile and discharges into the Mobile River, which discharges into Mobile Bay. The north and west sides of the landfill extend into flood prone and saturated wetland areas. Onemile Creek converges with Threemile Creek approximately 150 feet north of the landfill.

The site is drained by Onemile and Threemile Creeks. The most important source of water for the city of Mobile is an impoundment on Big Creek. Mobile River is one of the principal sources of surface water and is the largest source of industrial water supplies in the city of Mobile according to Reed and McCain, (1972).

Topographically, the area investigated is in the Alluvial Deltaic Plain District of the East Gulf Coastal Plain physiographic section (Saap and Emplaincourt, 1975). The land surface ranges in altitude from 100 feet to sea level. The Hickory Street Landfill area is characterized by low lying, swampy terrain and brackish water (Mooty, 1988). The landfill is reported to have a total thickness of 50 ft with its base at about 10-12 feet below the refilled swamp surface (Smitherman, 1985). Sinkholes and other karst features are not characteristic of this area.

SOILS

The Soil Survey for Mobile County, Alabama, indicates that, the Hickory Street Landfill is underlain by Dorovan-Levy association which have slopes ranging from 0 to 1%. These soils at the landfill are very poorly drained in depressional swamps. Typically, the surface layer of Dorovan soils is very dark grayish-brown muck while the subsoil is black muck and is very slowly permeable. Levy soils, typically have gray silty clay loam surface layer while the subsoil is gray clay that has mottles of yellow and brown. Estimated permeabilities of these soils range from 1X10-4 to 1X10-8 cm/sec. (Unified Soil Classification, 1963).

In 1983, the City of Mobile Public Works Department installed 4 Monitoring Wells within the property limit of the Hickory Street Landfill (Figure 2). Groundwater elevations were submitted by applicant as follows:

ММ	Location	Depth to water level bls	Total depth of well bls	Water level above MSL
1	South of site between the front gate & the maintenance shop	25.00	37.5	1.55
2	West side & in bottom slope of landfill	7.67	21.0	1.89

3	north end of site approx. 25 ft away from the surrounding swampy area. Imile & 3mile Creeks converge about 60 yards N of the well	5.00	21.5	1.01
4	East of the site & close to Imile Creek	6.75	18.5	1.04

GEOLOGY

The Hickory Street Landfill is underlain by alluvial, terrace, coastal deposits, which are of the Pleistocene and Holocene Series and represent complex beach, dune, lagoonal, estuarine, and deltaic depositional environments. These sediments consist of very fine to coarse-grained sand that is sometimes gravelly which dips southward at less than I degree (15 to 25 feet per mile). Sandy clay is occasionally interbedded with the sand. The maximum thickness of the alluvial, terrace, and coastal deposits was estimated by Chandler, (1983), as ranging from 0 to 200 feet, based on the first appearance of coarse siliclastic sediments.

The landfill site has no history of sinkhole development. Sinkholes and other Karst features are not characteristic of this area. No sinkholes were observed within the the 4 miles radius of the site and are not documented in the available literature.

HYDROGEOLOGY

The major aquifer within the area of inspection is the Alluvial-Coastal aquifer which is hydraulically connected to the underlying Pilocene-Miocene aquifer. These aquifers are not heavly used. There was not a single water well found within a 4 miles radius of the site. Aquifer recharge is dominated by rainfall which averages 62 in/yr (National Oceanic and Atmospheric Administration, 1985).

In the area of the site, the upper saturated zone which is a marsh area is located at the base of the landfill. The landfill is located in the recharge area of the Alluvial-Coastal aquifer which is considered to be susceptible to contamination from the land surface (Mooty, 1988). The site is underlain by the Alluvial-Coastal aquifer which generally is an area of groundwater discharge; this decreases the likelihood of a contaminant migrating into the deep groundwater system, if the water levels do not decline.

Aquifer yield potential ranges from 0.5 to 1.0 mgal/d and higher yield wells are completed in beds of sand and gravel that is originated from coastal deposits and buried channels.

There are 4 monitoring wells (MW) located within the property limit of the Hickory Street Landfill. Monitoring well 1, an upgradient well, was in good condition, and had a unlocked padlock. Downgradient monitoring wells 2, 3, and 4 have rusted, unpadlocked lids. These 3 monitoring wells are at a very close proximity to the swamp area.

The groundwater direction of flow is expected to be east-west and the regional potentiometric surfaces for the Alluvial-Coastal aquifer is between 50 and 100 feet (Modified from Ricco et al, 1973). Wells developed in this aquifer generally tap deep sands with potentiometric heads above sea level (Mooty, 1988).

GROUNDWATER USAGE

A water well inventory was conducted during the site visit. Public water is available throughout the 4 miles radius of the site within which no private or public water well was identified.

The closest public supply well is approximately 6 miles north of the site, which is the suspected upgradient direction. This well #27 is 148 feet deep at 19 feet altitude of land surface and is owned by Saraland Water Service (Mooty, 1988).

WATER QUALITY

Groundwater in the area of the Hickory Street landfill site is generally not suitable for domestic uses. Sampling of the monitoring well system at the Hickory Street Landfill began in 1981 to determine the water quality. The biannual ADEM groundwater monitoring report of the landfill was submitted by Envirochem, Inc., in Mobile revealed that, the Maximum Contaminant Levels (MCL) of volatiles, lead, specific conductance, chloride, iron and manganese have been exceeded. Analytical data indicates that, the increase in concentration of parameters varies between wells and between sampling events. A report completed in detail on groundwater guality is attached (See tables).

GROUNDHATER ROUTE CHARACTERISTICS:

Principal Aguifer: Alluvial-Coastal Aguifer

Gross Precipitation: 62 inches per year

Net Precipitation: 12 inches per year

Depth to Aquifer of concern: 0-24 inches

Slope: 0 to 1 percent

Groundwater Flow Direction: Assumed to be to the east-west

Permeability of unsaturated zone: 1X10-4 cm/sec

TARGETS

Groundwater use: Domestic

Distance of nearest well: approximately 6 miles north to the site.

The Pliocene-Miocene and the Alluvial-Coastal aquifers are hydraulically interconnected.

REFERENCES

- Hickman, Glenn L., and Charles Owens, 1980, Soil Survey of Mobile County, Alabama, U.S. Department of Agriculture, Soil Conservation Service, Page 76.
- Hicks, R.E., 1992, Hydrologic Evaluation of Hickory Street Landfill Permit no. ILF 49-01, Mobile County, Alabama.
- Mooty, Will S., 1988, Geohydrology and Susceptibility of Major Aquifers to Surface Contamination in Alabama; Area 13, Page 12.
- Reed, P.C., 1971, Geology of Mobile County, Alabama, Page 8.
- Reed, P.C. and J.F. McCain, 1972, Water availability in M.C., Alabama Geology Survey of Alabama, University of Alabama, Page 12.
- Smitherman, W.G., 1985, TDD no. F4-8412-05, Contract no. 68-01-6699, NUS Corporation, Superfund Division, U.S. EPA.

Unified Soil Classification, 1963

cc: Jennifer Klepac Fred C. Mason

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PWS ID1:
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PWS ID2:
PWS TYPE:
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ZIP:
                                  36652
ZIP2:
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LAB NAME:
                                  Mobile Water Service Laboratory
TURBIDITY MONITORING REQUIRED: Y FLOURIDE MONITORING REQUIRED: Y
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PHONE EXT 2:
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EMERGENCY EXT 2:
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LAB ID:
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LAB NAME:
                                  Prichard Water Works Laboratory
TURBIDITY MONITORING REQUIRED: Y
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FLOURIDE MONITORING REQUIRED: Y

Mobile Branch Laboratory

LAB NAME:

TURBIDITY MONITORING REQUIRED: N FLOURIDE MONITORING REQUIRED: Y

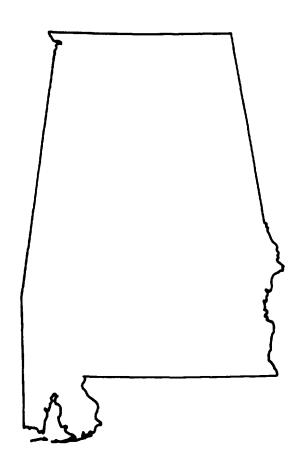
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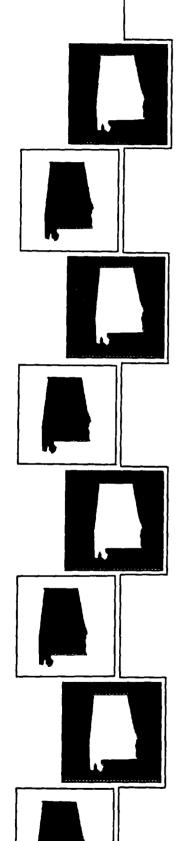
OVERSIZED * DOCUMENT



Water Resources Data Alabama Water Year 1990



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AL-90-1 Prepared in cooperation with the Alabama Department of Environmental Management, the Alabama Highway Department, and with other State, municipal, and Federal agencies



LOW-FLOW AND FLOW-DURATION CHARACTERISTICS
OF ALABAMA STREAMS

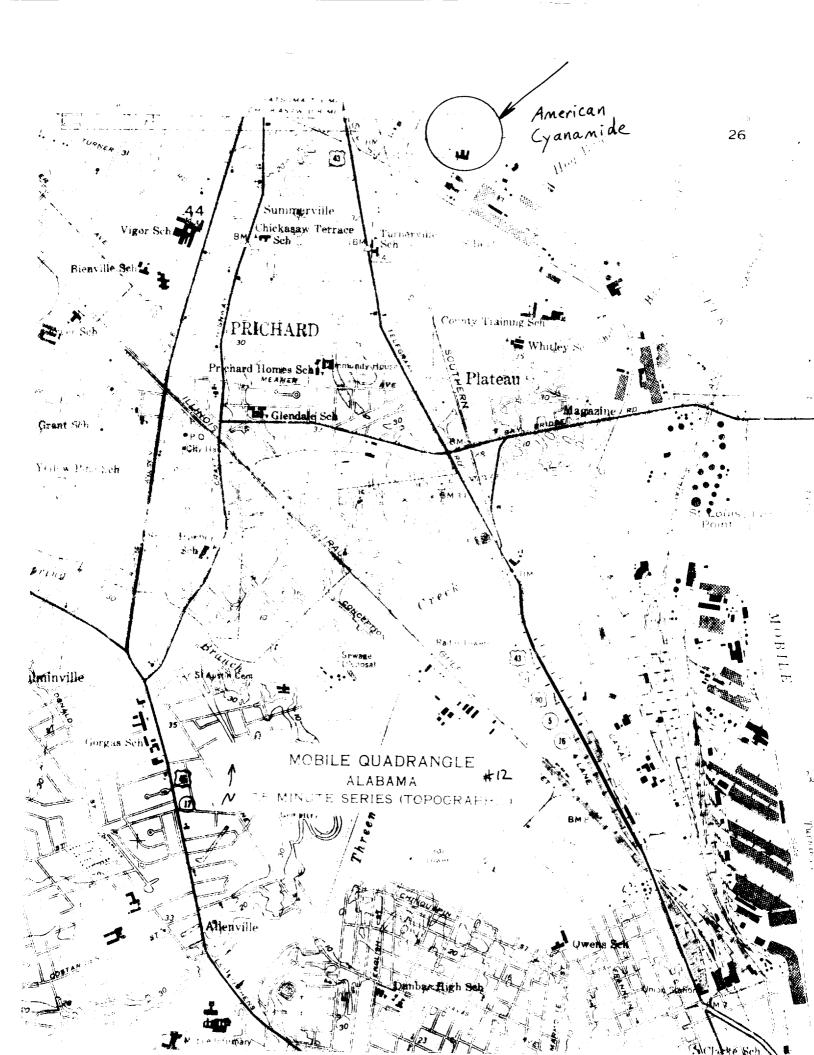


Prepared by the United States Department of the Interior, Geological Survey In cooperation with the Alabama Department of Environmental Management and the Tennessee Valley Authority

Federally Listed Aquatic Species in the State of Alabama November 1993

			November	1993		
Species	Common Name	Stat	Hydro-Unit Sub-basin	CH Hydro Unit	River/ Stream	County
Pseudemvs atabamensis	Alabama red- bellied turtle	Е	03160204- 010,020,030,040 060		Mobile-Tensas Delta	Baldwin, Mobile
			03160205- 050		Fish River	Baldwin
			03150204- 110,120,130		Little River (from State park downstream)	Baldwin, Escambia, Monroe
			03150204- 120,130		Alabama River (Little River confluence downstream)	Clarke
Sternotherus depressus	Flattened musk turtle	T	03160112- 010,030,040		Valley Creek (Birmingham City limits downstream)	Jefferson
			03160112- 010,030,040		Mud Creek (town of Mud Creek, downstream)	J e fferson
	·		03160112- 010,040,060		Black Warrior River (mainstem for Mulberry and Locust Fork confluence, downstream to Bankhead Dam)	Jefferson, Walker, Tuscaloosa
			03160112- 040	:	Shoal Creek (lowermost 5 miles)	Jefferson
			03160112- 040		Little Shoal Creek	Jefferson, Tuscaloosa
			03160112- 050,060		Big Yellow Creek (lowermost 10 miles)	Blount, Cullman, Walker
- Port of the state of the stat						

Species	Common Name	Stat	Hydro-Unit Sub-Basin	CH Hyrdo Unit	River/ Stream	County
<u>Sternotherus</u> <u>depressus</u>	Flattened musk turtle	Т	03160111- 060,080		Calvert Prong of Little Warrior River (Al Hwy 75 dowsntream)	Blount
			03160111- 070		Blackburn Fork of Little Warrior River (Inland Lake Dam downstream)	Blount
			03160111- 080		Gurley Crk (Al Hwy 75 downstream)	Blount, Jefferson
			03160111- 010		Turkey Crk (Cunningham Crk confluence downstream)	Jefferson
			03160111- 130		Cane Crk(Fivemile Crk. confluence downstream)	Jefferson
			03160111- 120,130		Fivemile Crk (Brookside downstream)	Jefferson
			03160111- 140		Village Crk (Bayview Lake Dam downstream)	Jefferson
Acipenser oxryhncus desotoi	Gulf sturgeon	1	03160204- 130,160		Alabama River (Claiborne Dam downstream to confluence with Mobile River)	Clarke, Monroe
			03160204- 010,020,030,040, 050,060		Mobile River (main stem from confluence with Tombigbee River downstream)	Mobile, Baldwin



Mot 1,34,4

^ = DA	POTENTIAL	HAZARDOUS WAS	TE SITE		REGION	SITE NUMBER	
⇔EPA	FINAL STRA	TEGY DETERM	INATION		I	AL 0000	
File this form in the regional System, Hazardous Waste En	Hazardous Waste Lop Morcement Task Force	g File and submit e (EN-335), 401 M	a copy to: U St., SW, Wa	J.S. Environment shington, DC 20	al Protecti 460.	on Agency, Si	te Tracking
CITE MAME		I. SITE IDENTI	FICATION B. STREET				
American Cy	quamin						
Mobile			D. STATE AMB	9M9		E. ZIP CODE	
Indicate the recommended act	tion(s) and agency(ie	II. FINAL DETE	RMINATION		e appropria	te boxes.	
,	RECOMMENDATION				AC	TION AGENCY	PRIVATE
A. NO ACTION NEEDED			_				
B. REMEDIAL ACTION NEEDE (II yes, complete Section IIIs)		ES AVAILABLE					
C. REMEDIAL ACTION (11 you,	complete Section IV.)						
E. RATIONALE FOR FINAL ST Site INVOTIGAT			•				
F. IF A CASE DEVELOPMENT THE DATE PREPARED (mo. H. PHE PAHER INFORMATION THAME B. E. C.			DATE FILE	FORCEMENT CAS LED (mo., day, & yr	.,	3 DATE(MO.,	d e y, & yr.)
List all remedial actions, surfor a list of Key Words for earemedy.							
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POTENTIAL HAZARDOUS WASTE SITE LOG

SITE NUMBER

86

NOTE: The initial identification of a potential ation that an actual health or environme waste Site Enforcement and Response S	ntal threat ex	ists. All identified sites will be a	ssessed under the EPA's actually exists.	Hazardous
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CITY CHANGE CONTINUES CO	mpany	STATE	IZIP CODE	•
makil.	•	ALa.	3661	<i>'</i>
Mobile SUMMARY OF POTENTIAL OR KNOWN PROBLEM		74.	7601	て
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ITEM	DATE OF DETERMIN- ATION OR COMPLE- TION	RESPONSIBLE ORGANIZATION OR INDIVIDUAL (EPA, State, Contractor, Other)	PERSON MAKING ENTRY TO LOG FORM	DATE ENTERED ON LOG (mo,day,yr)
1. IDENTIFICATION OF POTENTIAL PROBLEM	1110- ng		Javier A. Colat	2/4/80
2. PRELIMINARY ASSESSMENT	1/28/80		JAVION A. COLON	3/4/80
APPARENT SERIOUSNESS OF PROBLEM	— — — — — — — — — — — — — — — — — — —	MEDIUM KOW NON	T UNKNOWN	1
3. SITE INSPECTION	1/28/80		J.AC	3/19/8
EPA TENTATIVE DISPOSITION (check appropriate item(a) below)			·	
a. NO ACTION NEEDED				
b. INVESTIGATIVE ACTION NEEDED			<u> </u>	
c. REMEDIAL ACTION NEEDED				
d. ENFORCEMENT ACTION NEEDED				
5. EPA FINAL STRATEGY DETERMINATION (check appropriate tiem(a) below)				*
A. NO ACTION NEEDED				
b. REMEDIAL ACTION NEEDED	<u> </u>			
REMEDIAL ACTION NEEDED BUT,				
d. ENFORCEMENT ACTION NEEDED				
[] (I) CASE DEVELOPMENT PLAN PREPARED				
(2) ENFORCEMENT CASE FILED OR ADMINISTRATIVE ORDER ISSUED				
6. STRATEGY COMPLETED				
PA Form T2070-1 (10-79)				

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SEPA

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION SITE NUMBER (to be an

<u>V</u> 86

NOTE: This form is completed for each potential hazardous was submitted on this form is based on available records and may be and on-site inspections.	ste site to help updated on su	p set priorities for ibsequent forms as	site inspection. The information a result of additional inquiries
GENERAL INSTRUCTIONS: Complete Sections I and III through Assessment). File this form in the Regional Hazardous Waste L Agency; Site Tracking System; Hazardous Waste Enforcement T	og File and st	ubmit a copy to: U	.S. Environmental Protection
I. SITE IDE	NTIFICATION	t	
A. SITE NAME		r other identifier)	
AMENICAN CHARAMIDE COMPANY	Cum	remide ro	od .
C. CITY		E. ZIP CODE	F. COUNTY NAME
mobile	AL.	36614	mobile
G. OWNER/OPERATOR (II known)			
1, NAME			2. TELEPHONE NUMBER
A merican Cyanamida			(2.5) 459-6601
H. TYPE OF OWNERSHIP			
1. FEDERAL 2. STATE 3. COUNTY 4 MUNI	CIPAL DE	PRIVATE []6	UNKNOWN
I. SITE DESCRIPTION 7- MI	n BRusso	1. 11.11	
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J. HOW IDENTIFIED (I.e., citizen's complaints, OSHA citations, etc.)			K. DATE IDENTIFIED
The lampury provided in Formation Duraing The	ECKhandT.	Report	(mo., day, & yr.)
		•	mia-1179
L. PRINCIPAL STATE CONTACT			
I. NAME			2. TELEPHONE NUMBER
DAN COOPER			(205) 832-6738
II. PRELIMINARY ASSESSME	NT (complete	this section last)	
A. APPARENT SERIOUSNESS OF PROBLEM	M 1 (III Section	
1. HIGH2. MEDIUM3. LOW4 NONE	X.	UNKNOWN	
B. RECOMMENDATION 1. NO ACTION NEEDED (no hazard)		DIATE SITE INSPEC	
3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR:	b. WIL	L BE PERFORMED	BV:
b. WILL BE PERPORMED BY:	4. SITE	INSPECTION NEED	ED (low priority)
C. PREPARER INFORMATION			4/ 1/4/4/19
1. NAME	2. TEL	EPHONE NUMBER	3. DA FE (mor, day, & yrs).
Javien A. Colon	545)	833-6738	JAN. 28 /80
المروب والمستروب والمناه والمستروب والمستروب والمناه والمن	NFORMATION		
A. ŞITE STATUS			
1 ACTIVE (Those industrial or humicipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)	Those sites		cidents like "midnight dumping" where a site for waste disposal has occurred.)
B. IS GENERATOR ON SITE?			
1. NO YES (epocity gent	erator'e four-di	git SIC Code): 381	1, 2821,2899
C. AREA OF SITE (In acres) D. IF APPARENT SERIOUS	VESS OF SITE I	S HIGH, SPECIFY CO	OORDINATES
TACRES ON COMPANY PROPERTY 1. LATITUDE (degmin			UDE (degminsec.)
= 30 ACRES BRUNSON LAND FILL			
E. ARE THERE BUILDINGS ON THE SITE!			

T2070-2 (10-79)

Continue On Revetse

			<u>'. c</u>	HARACTERIZATI	ION	OF SITE ACTIV				
indicate the major site	activity(es) and deta	ils	relating to each a	cti	vity by marking 'X' in	the app	ropriate boxes	•	
A. TRANSPOR	TER	<u>×</u>	B. S	TORER	$\check{\boxtimes}$	C. TREATER		× °	. DISP	OSER
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4. TRUCK		4. TANK.	A B	OVE GROUND	X	4. RECYCLING/RECO	VERY	4. SURFAC	EIMP	DUNDMENT
S. PIPELINE		S. TANK.	86	LOW GROUND		S. CHEM./PHYS. TRE	TMENT	S. MIDNIGH	T DUM	PING
6. OTHER (apecify):		6. OTHER	2 (0)	pecify):		6. BIOLOGICAL TREA	TMENT	S. INCINER	ATION	-
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C. WASTE CATEGORIE	S	_								
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(2) METALS SLUDGES (3) POTW (4) ALUMINUM SLUDGE	(210TH	TES	F	SOLVENTS (2) NON-HALOGHT SOLVENTS		(2) PICKLING LIQUORS	(2) A1 (3) MI (4) Fi	LLING/ NE TAILINGS ERROUS	(4)	HABORATORY PHARMACEUT. HOSPITAL RADIOACTIVE
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(2) METALS SLUDGES (3) POTW (4) ALUMINUM SLUDGE (5) OTHER(specify):	(2) O TH	ER (epocity):	F	SOLVENTS (2) NON-HALOGHT SOLVENTS		(2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS (9) PCS	(2) A3 (3) Mill (4) Sh (8) Sh	LLING/ NE TAILINGS ERROUS ALTG. WASTES ON-FERROUS ALTG. WASTES THER (**pecity):	(4)	HABORATORY PHARMACEUT. HOSPITAL RADIOACTIVE
PIGMENTS 12) METALS SLUDGES (9) POTW 14) ALUMINUM SLUDGE (5) OTHER(specify):	(2) O TH	ER (epocity):	F	SOLVENTS (2) NON-HALOGHT SOLVENTS		(2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS (9) PCS	(2) A3 (3) Mill (4) Sh (8) Sh	LLING/ NE TAILINGS ERROUS ALTG. WASTES ON-FERROUS ALTG. WASTES THER (**pecity):	(4)	HABORATORY PHARMACEUT. HOSPITAL RADIOACTIVE

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continued From Page 2				
3. LIST SUBSTANCES OF GREATES	T CONCERN		ED INFORMATION	
might require	e Lon	un exti	inclien Kipe	ecture for some interest south
4. ADDITIONAL COMMENTS OR NAM Dunling Piniol 1939-1899 Price France Cosposic Residence To 196199 They Elimin	A DISTA	lange exist of scentus of schools waste	TED TO THE RIVE WATER GERT CONNETTING ST.	NOR REPORTED TO EXIST AT THE SITE. Si fand The Principal Types of WASTES (A) TO P.O. T.W. AND DELIVERED MORE MANAGE LILL
	В.	VI. HAZ	ARD DESCRIPTION	ON
A. TYPE OF HAZARD	POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo.,day,yr.)	E. REMARKS
. NO HAZARD				
. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
CONTAMINATION OF WATER SUPPLY				
CONTAMINATION OF FOOD CHAIN				
OF GROUND WATER				 -
CONTAMINATION OF SURFACE WATER				
P. DAMAGE TO FLORA/FAUNA			·	
IO. FISH KILL				
1. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
4. PROPERTY DAMAGE				
1 FIRE OR EXPLOSION				
6. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM Drain Problems				
18. EROSION PROB. EMS				
16 INACEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
2 2. OTHER (specify):	<u> </u>	†	1	

A. AIR PERMIT 7 RCAS STORER	Continued From Front	_		
1 NPDES PERMIT 2 SPCC PLAN 3. STATE PERMIT (specify) AWT C		V V	II. PERMIT INFO	RMATION
A NONE B. YES (complete from 1.3), A 4 below) I TYPE OF ACTIVITY I STATE OF	A. INDICATE ALL APPLICABLE PER	MITS HELD BY TH	E SITE.	:
A NONE B. YES (complete from 1.3), A 4 below) I TYPE OF ACTIVITY I STATE OF	1 NPDES PERMIT 2 SPC	C PLAN	3. STATE PERMIT	(apecity): A LUT C
10. OTHER (appeality): Note 1. The Maddle Castella Road & Glassian Road 1. The Maddle Castella Road & Glassian Road 1. The Maddle Castella Road & Glassian Road 1. The Maddle Castella Road & Glassian Road 1. The Second Road Road Road 1. The Second Road Road Road Road Road Road Road Roa	4. AIR PERMITS 5. LOC	AL PERMIT	6. RCRA TRANSPO	RTER
I. YES				
I. YES	10. OTHER (apocity): No.	ti: the mo	bile Carrily	Board of Health is in charge of Air Permit
A. NONE B. YES (complete Items 1,2,3, & 4 below) I TYPE OF ACTIVITY DIAND	N. IN COMPLIANCE?			
VIII. PAST REGULATORY ACTIONS A. NONE B. YES (summarize below) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION ACTIVITY (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. INSPECTION IX. INSPECTION (past or on-going) IX. IX. IX. IX. IX. IX. IX. IX. IX. IX.	1. YES 2. NO		3. UNKNOWN	
A. NONE B. YES (complete from 1,2,3, & 4 below) TYPE OF ACTIVITY PART ACTION PERFORMED A. DESCRIPTION	4. WITH RESPECT TO (list regul	ation name & number	r):	
IX. INSPECTION ACTIVITY (past or on-going) IX. IX. INSPECTION ACTIVITY (past or on-going) IX. IX. IX. IX. IX. IX. IX. IX. IX. IX.		VIII. F	AST REGULATO	RY ACTIONS
A NONE 1 TYPE OF ACTIVITY 2 DATE OF AST 1700 (EPA/Siate) 1-31-79 AWIL (EPA/Siate) 1-31-79 AWIL (P.O.T.W). NO RELIGIONAL WINDS DONE TO HEALD, INSPECTION X. REMEDIAL ACTIVITY (past or on-going) X. REMEDIAL ACTIVITY (past or on-going) A. DESCRIPTION X. REMEDIAL ACTIVITY (past or on-going) 1. TYPE OF ACTIVITY PAST ACTION (Mon. dey, 8.7%) PAST ACTION (Mon. dey, 8.7%) A. DESCRIPTION A. DESCRIPTION A. DESCRIPTION A. DESCRIPTION (Mon. dey, 8.7%)	A. NONE B. YE	S (summerize below)	
A NONE 1 TYPE OF ACTIVITY 2 DATE OF AST 1700 (EPA/Siate) 1-31-79 AWIL (EPA/Siate) 1-31-79 AWIL (P.O.T.W). NO RELIGIONAL WINDS DONE TO HEALD, INSPECTION X. REMEDIAL ACTIVITY (past or on-going) X. REMEDIAL ACTIVITY (past or on-going) A. DESCRIPTION X. REMEDIAL ACTIVITY (past or on-going) 1. TYPE OF ACTIVITY PAST ACTION (Mon. dey, 8.7%) PAST ACTION (Mon. dey, 8.7%) A. DESCRIPTION A. DESCRIPTION A. DESCRIPTION A. DESCRIPTION (Mon. dey, 8.7%)	/			
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1 TYPE OF ACTIVITY 2 DATE OF PAST ACTION (REPASSION) (REPASSION		IX. INSPEC	TION ACTIVITY	(past or on-going)
PART ACTIVITY PART A	A NONE B. YES	(complete items 1,	7,3, & 4 below)	
Trype of activity Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.	1 TYPE OF ACTIVITY	PAST ACTION	BY:	4. DESCRIPTION
Mobile County Dead 7-18-75 Mobile Rounty Wene Dead Inspections, No Recomediate Mental Manager Tours, No Recomediate Mental Manager Tours, No Recomediate Mental Mental Manager Tours, No Recomediate Mental M	INSPECTION YMONITURING	1	1 -	MONITON Organic WARTO STROAM Leading to.
X. REMEDIAL ACTIVITY (past or on-going) X. NONE B. YES (complete items 1, 2, 3, & 4 below) 1. TYPE OF ACTIVITY PAST ACTION (mon. dey, & yr.) (EPA/State) NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.	mobile County Board		4 -	Annual visual inspections, No Recommendati
A. NONE B. YES (complete items 1, 2, 3, & 4 below) 1. TYPE OF ACTIVITY 2. DATE OF PAST ACTION (mo., day, & yr.) (EPA/State) 4. DESCRIPTION (EPA/State) NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.	of Health, Inspection	7-18-11	COUNTY	WIRE DONE
A. NONE B. YES (complete items 1, 2, 3, & 4 below) 1. TYPE OF ACTIVITY PAST ACTION (mo., day, & yr.) (EPA/State) NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.				
A. NONE B. YES (complete items 1, 2, 3, & 4 below) 1. TYPE OF ACTIVITY PAST ACTION (mo., day, & yr.) (EPA/State) NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.		X. REM	EDIAL ACTIVITY	(past or on-going)
1. TYPE OF ACTIVITY 2. DATE OF PASTACTION (mo., day, & yr.) 3. PERFORMED BY: (EPA/State) 4. DESCRIPTION (EPA/State) 4. DESCRIPTION (EPA/State) (EPA/State) (EPA/State) (EPA/State) (EPA/S				
1. TYPE OF ACTIVITY PAST ACTION (mo., day, & yr.) RYS (EPA/State) 4. DESCRIPTION A. DESCRIPTION OTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.	A. NONE B. YE			
NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.	1. TYPE OF ACTIVITY	PAST ACTION	BY:	4. DESCRIPTION
information on the first page of this form.		(1301, 00), (2)11)	(EFR) 510.0)	
information on the first page of this form.				·
information on the first page of this form.	<u> </u>	<u> </u>	† · · · · · · · · · · · · · · · · · · ·	
information on the first page of this form.				
information on the first page of this form.				
information on the first page of this form.		<u></u>	<u> </u>	
	NOTE: Based on the informati	on in Sections II	I through X, fil	l out the Preliminary Assessment (Section II)
	information on the firs	page of this for	m.	
(M T 900 T 1 977 T 1	PA Form T2070-2 (10-79)	·····	PAGE 4 OF	4

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

REGION SITE NUMBER (to be seelen

11

86

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335); 401 M St., SW; Washington, DC 20460-

tection Agency; Site Fracking Syste	, 1105414045 H	, acto Entoice			(=10 000)		
		I. SITE IDEN					
A. SITE NAME		_			ther identifier)	4	
A MERICAN CYANA	Mid Co.		D. 376		nick Roas	IV. COUNTY NA	· · · · · · · · · · · · · · · · · · ·
mobile			194		36614	mo61	· · -
G. SITE OPERATOR INFORMATION						TELEPHON	E NUMBER
						(205) 45	CD AL
Cyanamid Rood	MAMIL	4. CITY				1205/ 42	17-600/
Cananid Rood	, I	me	rbile			A/	36614
H. REACTY OWNER INFORMATION (II	different from opt	erator of alto)	mu			· ·	70014
1. NAME						2. TELEPHON	IE NUMBER
3. CITY		-			· ·	4. STATE	S. ZIP CODE
						1	
1. SITE DESCRIPTION IN POUNTAIN TO 2. holding BASIN for	T SNIAME AFI	FLUORT					
J. holding BASIN for					~		· · · · · · · · · · · · · · · · · · ·
🔲 1. FEDERAL 🔲 2. STATE	: 🔲 3. cou	UNTY [] 4. MUNI	CIPAL	5. PRIVA	TE	
	II. TENTATIVE	E DISPOSITIO	ON (comp	olete this	s section last)		
A. ESTIMATE DATE OF TENTATIVE		T SERIOUSNES					
DISPOSITION (mo., day, & yn.)	1. HIG	н] 2. MEDI	UM	3. LOW	4. NON	€
C. PREPARER INFORMATION							
1. NAME			2. TEL	_EPHONE	ENUMBER	S. DATE (mo.,	day, & yr.)
	III	. INSPECTIO	W INFO	PMATIO	м	<u> </u>	
A. PRINCIPAL INSPECTOR INFORMAT		· INdi se ···	N IN. C.	Amm			
I. NAME			2. TIT	LE			
S. ORGANIZATION			L -			T 4. TELEPHON	E NO. (area code & no.)
3. 3. 3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.							· · · · · · · · · · · · · · · · · · ·
B. INSPECTION PARTICIPANTS						<u></u>	
1. NAME		2. ORG/	ANIZATIO	>N		3. TEL	EPHONE NO.
		- 	· · · · · · · · · · · · · · · · · · ·				···
				<u> </u>			
					<u></u>		
C. SITE REPRESENTATIVES INTERVI	EWED (corporate	officials, work	kers, resi	dente)	M	<u> </u>	
1. NAME		ELEPHONE N			*	. ADDRESS	
	•						
							
<i>'</i>							

Ophthioga Lion Lion	√4. INS	PECTION INFORMATION (continued)	
D. GENERATOR INFORMATIO			
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
American Cyanamid	(200) 457-6601	Cyanamid Rood mobile, Alex	alum med on Organic Rosidue
			7
E. TRANSPORTER/HAULER I 1. NAME	NFORMATION 2. TELEPHONE NO.	3. ADDRESS	4.WASTE TYPE TRANSPORTE
F. IF WASTE IS PROCESSED (7	PPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITY 3. ADDRESS	ES USED FOR DISPOSAL.
	2. TELEPHONE NO.	Mrs. W. D. BRUNSON, PARS. , DRUNSON COM	The The Candre
BRUMSON SINGUSTOIN I WASTI band fill Lawful in the	(205) 675-4187	35 STATION ST., SARALAND, ALA. 263 Section 24, T. 25., R. Dw., mobile	·9/
La lawted in the	SE'4 SE'4	section 24, T. 25., R. Dw., mobile	curty
G. DATE OF INSPECTION	H. TIME OF INSPECT	ION 1. ACCESS GAINED BY: (credentials must be shown in	n all cases)
(mo., day, & yr.)	10 Acm.	1. PERMISSION 2. WARRANT	
J. WEATHER (describe)			
		IV. SAMPLING INFORMATION	
A. Mark 'X' for the types of		Ecate where they have been sent e.g., regional lab, o	ther EPA lab, contractor,
etc. and estimate when the			
1.SAMPLE TYPE	2.SAMPLE TAKEN (mark'X')	3.SAMPLE SENT TO:	4.DATE RESULTS AVAILABLE
e, GROUNDWATER			
b. SURFACE WATER			
C. WASTE			
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION I. OTHER(epocity)		· · · · · · · · · · · · · · · · · · ·	
I. OTHER(apolity)			
B. FIELD MEASUREMENTS T			
1. TYPE	2: LOCATI	ON OF MEASUREMENTS 6.	RESULTS
			•
	•		

Continued From Page 2							
		IV. SAMPI	LING INFOR	MA	TION (continued)		
C. PHOTOS	>		2. PHOTOS IN		III-AAU AF		
T. TIPE OF PROTOS		}	2. PHO 103 IN		031001 04.		
D. SITE MAPPED?	ILAL			_			
	~ - M	14.De.					
YES. SPECIFY LOCATION) P .m.	APS:					
E. COORDINATES Sec. 44 1. LATITUDE (degminzec.)	<u> </u>	13 /T.35.	, R.I W.	/) 2	LONGITUDE (degmineec.)		,
			V. SITE INFO		MATION		
A. SITE STATUS		-	/. 311E INF C	11/1	MATION		
Municipal sites which are being us for waste treatment, storage, or dis on a continuing basis, even if infre- quently.)	ed spose	2. INACTIVE sites which no to wastes.)					
	ecity			_	186, 1686, 1181		
C. AREA OF SITE (IN acres) PHINES		D. ARE THERE	2. YES(a)	N Per	THE SITE? PLT, Cory &.	ئنر	elant 1,500 ft.
		VI. CHARAC	TERIZATIO	H	OF SITE ACTIVITY		
Indicate the major site activity(i	es) (and details relatir	ag to each ac	tiv	ity by marking 'X' in the appro	prie	ate boxes.
A. TRANSPORTER	×	B. STORE	ER	$\overset{x}{\prec}$	C. TREATER	×	D. DISPOSER
1. RAIL		1. PILE			L. FILTRATION	\boxtimes	1. LANDFILL
2. SHIP	M	2. SURFACE IMPOL	THEMONE		2. INCINERATION		2. LANDFARM
3. BARGE		3. DRUMS			3. VOLUME REDUCTION	\coprod	3. OPEN DUMP
4. TRUCK	\prod_{i}	4. TANK, ABOVE G	ROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
8. PIPELINE		S. TANK, BELOW G	ROUND		S. CHEM./PHYS./TREATMENT	\square	S. MIDNIGHT DUMPING
6.OTHER(apacify):	<u></u>	e. OTHER (epecify):	;		8. BIOLOGICAL TREATMENT	$oldsymbol{\perp}$	8. INCINERATION
			1		7. WASTE OIL REPROCESSING	Ц	7. UNDERGROUND INJECTION
					9. OTHER(apecity):		S. OTHER(specify):
E. SUPPLEMENTAL REPORTS: If which Supplemental Reports you					s listed below, Supplemental Repo	rts n	must be completed. Indicate
1. STORAGE	2. IN	CINERATION D	3. LANDFIL	. L	SURFACE IMPOUNDMENT] 5.	DEEP WELL
6. PHYS TREATMENT	7. LA	ANDFARM	. OPEN DU] 10	. RECYCLOR/RECLAIMER
A. WASTE TYPE		VII. WA	STE RELAT	ΕD	INFORMATION		
1. LIQUID	, 2. SO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S. SLUDGE		4. GAS		
B. WASTE CHARACTERISTICS		- 7-1					
s. TOXIC		EACTIVE	3. RADIOAC	;TI	WE . 4. HIGHLY VOLATILE . 8. FLAMMABLE		
	> Sp	ecify items such as	menifests, inv	/en	tones, etc. below.		
762							

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Continue On Reverse

A			STE R									76000 H				
2. Estimate the amou		-				gory						Ce. SOLIDS	s are pi	res		_
MOUNT 9,	B. OIL	AM	c. SOL	VENTS	<u> </u>	AN	40UNT		CALS			ioune)		AM	I OTHE	
INIT OF MEASURE	UNIT OF MEASURE	UN	IT OF	MEASU	RE	UN	IT OF	ME	ASUR	€	UN	IIT OF MEASU	Į.	ÜN	IT OF MEA	SURE
70rs	X',,OILY	· x ·	(I) HAL	OGEN	ATED	×	(1) 40				x	MELYASH		×	(1) LABOR	TOR
PAINT, PIGMENTS	(1) WASTES	++	SOL	VENTS		$ar{}$	-			{	1				PHARM	CEU
(2) METALS SLUDGES	1210THER(apocily)		(2) NON			_	12) P16	000	R S			(2) ASBESTOS		\sqcup	(2) HOSPIT	A L
(3) POTW			(в) ОТН	ER (ap	ocify):		(3) C A	UST	16.5			(3) MILLING/A	AIN E		(3) RADIOA	CTIV
(4) ALUMINUM SLUDGE							(4) PE	ST 1	CIDES	•		(4) FERROUS ING WASTE	SMELT		(4) MUNICI	PAL
(B) OTHER (specify):			•				(8) DY	ES/	INKS			(B) NON-FERF	OUS ASTES	Ш	(6) OTHER	(apec
Residue.						Γ	(6) C	YAN	IDE			(6) OTHER(8P				
Propriet Percente Perceptus Perceptus Perceptus Perceptus Posins							(7) Pi	HEN	0 L \$			Alum surge Alsos silica Feros	الأرا		34) Cr	
= Paroffins 48							(8) H	ALO	GENS			Also3			,	
Rosins 40%							(9) P	C B				Feros?				
Soils 3, 40							(10) N	AET.	AL\$			Troz				
						F]000	тн	ER(sp	ecily).		***			٠	٠
LIST SUBSTANCES	OF GREATEST CONCE	ERN W	VHICH A	RE O	N THE	SIT	E (plac	ce in	desc	•nding	0	rder of hazard)		_		
f. SUBSTA	NCE.		. FORM nark 'X')			XICIT	Y 		4.0		NUMBER		. MO	UNT	6. UN
		. 50. LID	b. L1Q.	POR	4. Нібн	ME.	D. LO		d.				• • •			
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) 		_			_							
			VI	II. HA	ZARD	DI	ESCRI	PTI	ON		_					
FIELD EVALUATION Hezard in the space	N HAZARD DESCRIF	PTIO	N: Ple	ce an	'X' ir	the	e box	to is	ndica	te tha	1 (he listed haz	ard exi	8 (S.	Describe	the
A. HUMAN HEAL	TH HAZARDS															
_														-		
	•															
EPA Form T2070-3 (10-					AGE						_				ue On Pag	

B. NON-WORKER INJURY/EXPOSURE
C WORKER IN HEAVING THE CONTROL OF T
C. WORKER INJURY/EXPOSURE
D. CONTAMINATION OF WATER SUPPLY
18th-
E. CONTAMINATION OF FOOD CHAIN
C 1
F. CONTAMINATION OF GROUND WATER
G. CONTAMINATION OF SURFACE WATER
G. CONTAMINATION OF SURFACE WATER
G. CONTAMINATION OF SURFACE WATER

Continued From From	VIII. HAZARD DESCRIPTION (continued)	
H. DAMAGE TO FLORA/FAUNA		
		1
•		
1. FISH KILL		
	•	
J. CONTAMINATION OF AIR		
		•
K. NOTICEABLE ODORS		
İ		
	•	
}		
[] L. CONTAMINATION OF SOIL		
5		
M. PROPERTY DAMAGE		
1		
	•	•
1		
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بر. HAZARD DE	SCRIPTION (continued)
N. FIRE OR EXPLOSION	
	•
[] O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQU	סונ
P. SEWER, STORM DRAIN PROBLEMS	
Q. EROSION PROBLEMS	
	·
R. INADEQUATE SECURITY	
[] S. INCOMPATIBLE WASTES	
· ·	•
•	

		VIII. HAZARD DES	CRIPTION (continued)			
T. MIDNIGHT DUMPING						
	•					
						•
						·
U. OTHER (*pecity):		·				*******
						-
					a state -	·
		•				
	IX. P	OPULATION DIREC	TLY AFFECTED BY SI	TE		
	_		C. APPROX. NO. OF PEO	PLE	D. APPROX. NO.	E. DISTANCE
A. LOCATION OF POPULATION		APPROX. NO. OPLE AFFECTED	AFFECTED WITHIN UNIT AREA	ļ	OF BUILDINGS AFFECTED	TO SITE (specify units)
			<u> </u>		······································	
I. IN RESIDENTIAL AREAS						
2. IN COMMERCIAL 2. OR INDUSTRIAL AREAS						
IN PUBLICLY 3. TRAVELLED AREAS						
1						
4. (parks, schools, etc.)	<u> </u>					
A. DEPTH TO GROUNDWATER(epeci	(m. conte)	X. WATER AN	D HYDROLOGICAL DAT	IA	ROUNDWATER USE IN	VICINITY
< 50 /7	-,	To the pist			NE	
D. POTENTIAL YIELD OF AQUIFER				1	RECTION TO DRINK!	NG WATER SUPPLY
~ · A,		E. DISTANCE TO DR (epecify unit of me	and of		N.A.	
G. TYPE OF DRINKING WATER SUPI		·- · · · · · · · · · · · · · · · · · ·				
1. NON-COMMUNITY	2. COMMU > 15 CC	NITY (epecity town) -	Connectép To Th	<u>s</u> r	Nobili WATER	Supply
	4. WELL					
EPA Form T2070-3 (10-79)		PAG	E 8 OF 10		Contin	nue On Page 9

Continued From Page 8 X. WATER AND HYDROLOGICAL DATA (continued) H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE MON-COM-MUNITY (mark 'X') COMMUN-1TY (mark 'X') 3. LOCATION (proximity to population/buildings) 1. WELL 2461 I. RECEIVING WATER 1. NAME NONTH Mobile IND. | _ 2. SEWERS 3. STREAMS/RIVERS Treatment Facility 6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS P. O.T.W. XI. SOIL AND VEGITATION DATA LOCATION F SITE IS IN: C. 100 YEAR FLOOD PLAIN D. WETLAND B. KARST ZONE A. FNC. N FAULT ZONE G. RECHARGE ZONE OR SOLE SOURCE AQUIFER E. A REGULATED FLOODWAY F. CRITICAL HABITAT XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts. B. BEDROCK (specify below) C. OTHER (specify below) A. CVERBURDEN SOLL SURROUNCING THE STUDIES TEMPORALISE AND SANDY NATURE. THE 11 11 1. SAND FOR ALUM MAD has I Fout of improvious eLAY as a Lines (Penneshilly 105 70 10 cm/sec) 2. CLAY XIII. SOIL PERMEABILITY A. UNKNOWN B. VERY HIGH (100,000 to 1000 cm/sec.) D. MODERATE (10 to .1 cm/sec.) E. LOW (.1 to .001 cm/sec.) F. VERY LOW (.001 to .00001 cm/sec.) G. RECHARGE AREA 1. YES ___ 2. NO 3. COMMENTS: H. DISCHARGE AREA] 1. YES [] 2. NO 3. COMMENTS: I. SLOPE 2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC. 1. ESTIMATE % OF SLOPE J. OTHER GEOLOGICAL DATA

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Continue On Reverse

JURFOLD INTERNATIONAL

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EPA Form T2070-3 (10-79)

CI -D 2 EDAS

		Fix Ca.	mede 80
. SURFACE IMPOUNDMENTS SITE INSPE (Supplemental Report)			INSTRUCTION Answer and Explain as Necessary.
holding Darin for Organic	wash water		
TABILITY/CONDITION OF EMBANKMENTS			
3008			
EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, et) YES AO	(c.)		•
VIDENCE OF DISPOSAL OF IGNITABLE OF REACTIVE WASTE			
DNLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN	THE IMPOUNDMENT		
NECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH !	SURFACE IMPOUNDMEN	NT	•
MPOUNDMENT HAS LINER SYSTEM	7a. INTEGRITY OF	F LINER SYSTEM CHE	CKED
Aves INO CONIONT BOSIN	☐ YES TE	KNO	
the Concrete Realist CK			
OIL STRUCTURE AND SUBSTRUCTURE BASINE ARE positive Towns. AUDICALLE INFORMATION FOR WHITER WELLS INDIPARTS (SOFT MISE OF AUDICAL), LINGUISMING THE FRENCH POSSILI, APAREL, AND CARBONACEOUS DIONITORING WELLS	ich by flocker of ichies The Thiesence of to Depoths of topfeet Egande first ering.	Reinfunced Cont Fighly Penmentle St ARE Quenten Many	cets with water seals at Aris At Relative Shallow -His Aslunial Deposits a
TYES NO LENGTH, WIDTH, AND DEPTH			
ENGTH 98 WIDTH 10 DEPTH	& FT	ema .	
ESTIMATE FREEBOARD VARIES DAILY . ANY OVERTION WIll go INTO 7 SOLIDS DEPOSITION	he prom mul	O impound Men	7 ,
VES NO	·	·	
EXCAVOTED and harren To 1	BRIVISON IN	O. LANDFI	//
OTHER EQUIPMENT			
• •			r .
		•	
•			

HIMONICAN A. ANTO ECR 86 SURFACE IMPOUNDMENTS SITE INSPECTION REPORT Answer and Explain (Supplemental Report) as Necessary. 1. TYPE OF IMPOUNDMENT ALUM MUD in poundment 2. STABILITY/CONDITION OF EMBANKMENTS 3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.) X YES INO l 2000-4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE LI VES STINO S. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT TA YES E NO 6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT IMPOUNDMENT HAS LINER SYSTEM * I feet of imponvious 74. INTEGRITY OF LINER SYSTEM CHECKED M NO T YES Clay at the pottern. 75. FINDINGS Veston Thompson Q. Lot of Missile charles the lines profiles. Report snow sted and MARCH 25, 1979 8. SOIL STRUCTURE AND SUBSTRUCTURE PIPO IS PRITECTION BY 1977. of imperious Clay Liver Auntilitationalism for water wills provided the presence of highly premently structs at Kelative the loop to be the formation of SAND, CLMY, SILT TRAVELO, I DRIED TO BEST CORPORATIONARY - DEC ALLUVIAL DISSENTS

9. MONITORING WELLS TYES TO 10. LENGTH, WIDTH, AND DEPTH LENGTH 285 ft. WIDTH 650 ft DEPTH 1/17

11. CALCULATED VOLUMETRIC CAPACITY (2,037,750 Cu.FT) (7.48062) = 15,043,407. 58 gallons 12. PERCENT OF CAPACITY REMAINING 75% 13. ESTIMATE FREEBOARD 3 F7 14. SOLIOS DEPOSITION X YES __ NO 15. DREDGING DISPOSAL METHOD Excavater and hauled & Brusser Landfell. 16. OTHER EQUIPMENT

111 - Le ma Intention Conflict

J 6

	LANDFILLS SITE INSPECTION REPORT (Supplemental Report)	INSTRUCTION Answer and Explain as Necessary.
1. EVIDENCE	OF SITE INSTABILITY (Eroxion, Settling, Sink Holes, etc.)	
	OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFIL	L
	CORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK	
T YES	L.I NO	
	PROUNDED BY SORBENT MATERIAL	
5. DIVERSION	I STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED	
	[] NO	·
	OF PONDING OF WATER ON SITE	
	OF IMPROPER/INADEQUATE DRAINING	
	[] NO LEACHATE COLLECTION SYSTEM (II "Yee", specily Type)	
	[] NO	
•	LEACHATE SPRING .	
	C NO OF LEACHATE ANALYSIS	
	[] NO	
10. GAS MONI		
YES	[] NO	
TI. GROUNDY	ATER MONITORING WELLS	
1	AL MEMBRANE LINER INSTALLED	······································
[] YES	CONTAINMENT MEASURES (Clay Bottom, Sides, etc)	
[] YES	[] NO	
	(Stabilization) OF WASTE	
. YES	[] NO	
TO YES	E CLOSURE OF INACTIVE PORTION OF FACILITY	
16. COVER(T	(Pe)	
16a. THICK	NESS	
16b. PERMI	FARHITY	
100.7 27		
1		
	APPLICATION	
T YES	[] NO	:

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SEPA

T2070-2 (10-75)

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION	SITE NUMBER (to be ac.
	elaned by Ha)
TV_	
استسيا	80

Continue On Reverse

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment), File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency: Site Tracking System: Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

1. Sf	TE IDENTIFICATION	{	
SITE NAME		r other identifier)	•
American Cyanamide Company	Cum	ramicle ro	od
CITY	D. STATE	E. ZIP CODE	F. COUNTY NAME
mobile	AL.	36614	mobile
OWNER/OPERATOR (If known) 1, NAME			12. TELEPHONE NUMBER
a consider the first of			(2.5) 457-6601
A. merican Cyonemide			(203) 437-6007
1. FEDERAL 2. STATE 3 COUNTY	3- MD COTTO	PRIVATE 16	UNKNOWN
SITE DESCRIPTION (C. From Mark Congression Conference	3- MD 8.71.50	ينده أنكونون الأم	
or the view threin for ORGANIC AFFINENT			
			
HOW IDENTIFIED (i.e., citizen's completine, OSHA citation: The lampany Prowided in Formation During		Report	K. DATE IDENTIFIED (mo., day, & yr.)
		·	mio-1979
PRINCIPAL STATE CONTACT			
1. NAME			2. TELEPHONE NUMBER
DAN COOPER			12-5/ 832-6728
II. PRELIMINATY AS	SESSMENT (complete	this section last)	
APPANES STRIOUSNESS OF PROBLEM			
1. HIGH 2. MEDIUM 3. LOW	A NONE	UNKNOWN	
RECOMMENDATION			
		DIATE SITE INSDE	CTION NEEDED
RECOMMENDATION 1. NO ACTION NEEDED (no hazard)	2. IMME	DIATE SITE INSPE	CTION NEEDED
1. NO ACTION NEEDED (no hazard)	2. IMME	DIATE SITE INSPENDATIVELY SCHED	CTION NEEDED DULED FOR
	— • TEI	DIATE SITE INSPENTAT VELY SCHED	DULED FOR
1. NO ACTION NEEDED (no hazard) 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHECULED FOR:	— • TEI	NTAT VELY SCHES	DULED FOR
1. NO ACTION NEEDED (no hazard)	b. WIL	NTAT VELY SCHED	BY:
1. NO ACTION NEEDED (no hazard) 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHECULED FOR:	b. WIL	NTAT VELY SCHES	BY:
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In				OTTOTAL CONTRACT	101	N OF SITE ACTIVITY			<u> </u>	
	dicate the major site	activity(it	s) and dei	ails relating to each	acti	ivity by marking 'X' in	the app	ropriate boxes		
. x .	A. TRANSPORT	TER	×.	B. STORER	Š	C. TREATER		×	. DISPOSER	
├──	1. RAIL		1 PILE		10	I. FILTRATION		L LANDEIL	L 005 515 , 3	
┢	2. SHIP			CE IMPOUNDMENT()	1	2. INCINERATION		2. LANDEA		
-	3. BARGE	·····	3. DRUM		+	3. VOLUME REDUCTIO	ON.	3. OPEN DI		i
-	4. TRUCK		4. TANK	ABOVE GROUND		4. RECYCLING/RECO	VERY	4. SURFAC	E IMPOUNDMENT	
×	S. PIPELINE			BELOW GROUND	∇	S. CHEM./PHYS, TRE		1 - 	T DUMPING	
۲	6. OTHER (specify):			R (apecity):	┲	6. BIOLOGICAL TREA		6. INCINER		
-	Jo. OTHER (Specify).	ŀ		n (apacity).	-	7. WASTE OIL REPRO			NOITSELII CHUOR	
		•			\vdash	 		 		}
		}			-	9. OTHER (specify):	RY	B. OTHER (*pecity):	
					\vdash	Te. OTHER (apectry):		1		į
										{
E	. SPECIFY DETAILS	OF SITE AC	TIVITIES A	SNEEDED	<u></u>		···	λ	·	į.
					3.	To P.O.T.W,		Per char Record	100 a.d	ĺ
8	3. 2. Surface TAP	Stus ménuo	5#12 Ho	10ing Lagour For	7.00	overy of water com	10 C 1 4 T T	19. 9/ mar	DOFWHIO.	î. <u>2</u>
		. 2	ه. ای سپد	alum mud			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		i
C	1.5. CHPM/ PAGE TOL	PAT DIENT !	Aeneation	n Lagoons		opication by mar E	2			ŧ
ىكى	IL LANDELT ON	Truck Pu	epints Es			•	TIANS ON	·		
Ā	. WASTE TYPE		 	V. WASTE RELA	iΕ	DINFORMATION				
	-									i. Ž
:]]ı baknoma [,5 FIONID	Z	s soulo 💢 🎉	5 L	UDGE	A 5			Ç.
L	. WASTE CHARACTER									
			IVE T	3. IGNITABLE [74	RA	DIOACTIVES H	GHLYV	OLATILE		ģ
				B INERT 9						e e
•	, , , , , , , , , , , , , , , , , , , ,	j, Kener				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ē J
,	10 OTHER (specify									*
←	WASTE CATEGOR'S							· · · · · · · · · · · · · · · · · · ·		<i>.</i>
		es available	Specify it	ems such as manifests,	inv	entories, etc. below.				a de la composição de l
	Yes	16-		ANTIGERS and is	eca	Le of the Power	1.75	m volve D		
_										5
				7	ateg		T		resent. 1,000 FUN	سر
	A. SLUDGE	ъ. (ונ	c. SOLVENTS		d, CHEMICALS		SOLIDS	f. OTHER	į ⊤ ∞
Α.	MOLN	AMOUNT		AMOUNT	•	AMOUN'	AMOUN	t	AMOUNT	F
	INIT OF MEASURE	UNIT OF M	FASIOR	UNIT OF MEASURE	 	UNIT OF MEASURE	<u> </u>	FMEASURE		1
. 0	7 7	UNT OF M	ENSURE	ONL! OF MEASURE	1	CN : OF WEASURE	13: 7.0		UNIT OF MEASURE	•
; 							1		UNIT OF MEASURE	٠,
. ×.		<u>.</u>					1	TONS		
<i>!</i> 	P'GMENTS	X'-11101L		'X' 1 HALOGENATE	. D			JONS	X,,LABOHATCHY	
		WAS		'X' 11 HALOGENATE	0	×	1	JONS		1
	121METALS	WAS		SOLVENTS	{	(1) ACIDS	X (1) F	JD NS LYASH	(T) LABOHATORY (T) PHARMACT J	بد
:	121METALS STUDGES	WAS	TE5	SOLVEN-S	{	X (1) ACIDS	X (1) F	JONS	X,,LABOHATCHY	ند ری
; ,	silvades	WAS	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS	(2) A	TD NS	(1) LABOHATCHY (1) PHARMACLUT	ند . ری
·		WAS	TE5	SOLVENTS	₹ D.	(1) ACIDS	(2) A	TD NS	(T) LABOHATORY (T) PHARMACT J	
	silvades	WAS	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS (3) CAUSTICS	(1) F	TONS LYASH SBESTOS HILLING! HINE TAILINGS	(2) HOSPITAL (3) RADIOACTIVE	ر دع دو
	CALEGES (ALPOTW	WAS	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS	(1) F	TD NS	(1) LABOHATCHY (1) PHARMACLUT	
	13: POTW (4) ALUMINUM SLUDGE	WAS	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES	(1) F	TO NS LYASH SBESTOS HILLING/ HINE TAILINGS ERROUS MLTG. WASTES	(2) HOSPITAL (3) RADIOACTIVE	
	(4) ALUMINUM SLUDGE (B) OTHER(specify):	WAS	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS (3) CAUSTICS	(X) (1) F	SBESTOS FILLING FINE TA LINGS ERROUS MLTG. WASTES MLTG. WASTES	(2) HOSPITAL (3) RADIOACTIVE	
X	(4) ALUMINUM SLUDGE (B) OTHER(specify):	WAS	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS	(X) (1) F	TO NS LYASH SBESTOS HILLING/ HINE TAILINGS ERROUS MLTG. WASTES	(2) HOSPITAL (3) RADIOACTIVE	
	(4) ALUMINUM SLUDGE (6) OTHER (specify):	WAS	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES	(1) F (2) A (3) M (4) F (5) S (5) S	SBESTOS CHASH SBESTOS CHILLING CHAST CHAST CONFERROUS MUTG. WASTES CONFERROUS MUTG. WASTES THER(Specify):	(2) HOSPITAL (3) RADIOACTIVE	
	ATALUMINUM SLUDGE (B) OTHER (Specify): (C) 1/3, (C) PASSIDUC PROFFFINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS	(1) F (2) A (3) M (4) F (5) S (5) S	SBESTOS FILLING FINE TA LINGS ERROUS MLTG. WASTES MLTG. WASTES	(2) HOSPITAL (3) RADIOACTIVE	
	(4) ALUMINUM SLUDGE (6) OTHER (specify):	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS	13 M 141 S 151 N 161 O	SBESTOS SBESTOS SERROUS MLTG. WASTES MLTG. WASTES THER(SPECIFY): M. SUMMAN	(2) HOSPITAL (3) RADIOACTIVE	
-	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS	(4) F (4) F (4) S (5) S (5) S	SBESTOS SBESTOS SILLING SBESTOS SILLING SINE TA LINGS ERROUS MLTG. WASTES MLTG. WASTES THER(SPECIFY) THER(SPECIFY) THER(SPECIFY) THER(SPECIFY)	(2) HOSPITAL (3) RADIOACTIVE	
-	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS	(2) A (3) M (4) S (5) S (5) S (6) O (7) A (7) A (7)	SBESTOS SBESTOS SILLING/ INE TA LINGS ERROUS MLTG. WASTES THER(SPECILY) THER(SPECILY) C3	(2) HOSPITAL (3) RADIOACTIVE	
-	ATALUMINUM SLUDGE (B) OTHER (Specify): (C) 1/3, (C) PASSIDUC PROFFFINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE	13 MM 141 S 151 S 161 0 161 0 161 0 161 0 161 0 161 0 161 0	SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	
-	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE	(2) A (3) M (4) S (5) S (5) S (6) O (7) A (7) A (7)	SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	
-	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS	13 MM 141 S 151 S 161 0 161 0 161 0 161 0 161 0 161 0 161 0	SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	ر ری و رو
-	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) A CIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS	13 MM 141 S 151 S 161 0 161 0 161 0 161 0 161 0 161 0 161 0	SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	
	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS (9) PCB	13 MM 141 S 151 S 161 0 161 0 161 0 161 0 161 0 161 0 161 0	SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	ر ری و رو
	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (8) HALOGENS (9) PCB	13 M (1) F (2) A (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) O (SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	
1	ATALUMINUM SLUDGE LIBIOTHER (SPECITY): PROSINS 40% ROSINS 40%	(2) OTH	TE5	SOLVENTS	₹ D.	(1) ACIDS (2) PICKLING LIQUORS (3) CAUSTICS (4) PESTICIDES (5) DYES/INKS (6) CYANIDE (7) PHENOLS (6) HALOGENS (9) PCB	13 M (1) F (2) A (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) F (6) O (1) O (SBESTOS SBESTOS SILLING! SINE TAILINGS ERROUS MLTG. WASTES MLTG. WASTES THER(Specify): M. S. Lidings C3 CA	(2) HOSPITAL (3) RADIOACTIVE	The second of th

Continued From Legal	V. W.	STE RELAT	ED INFORMATION	ON (cor_ :ued)			
3. LIST SUBSTANCES OF GREATES	TONCERN	WHICH MAY E	E ON THE SITE (place in descending order of hazard).			
3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hozard). my It require to ture sectionalism transfer for place). I'm reaches. Charissian of PH & 3							
. /							
4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE. Duning Pinior 1939-1979 & Discharge existed to The River partial Principal Tygos of whisians Principal Cisanic Residues had a culation water language. In 1/199 They eliminated in discharge counseins at top P.O. T.W. AND Delivering A river was a support to the Fill.							
	,	VI. HAZ	ARD DESCRIPT	ion .			
A. TYPE OF HAZARD	POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mos,day,yrs)	E. REMARKS			
1. NO HAZARD							
2. HUMAN HEALTH		•					
3. NON-WORKER INJURY/EXPOSURE							
4. WORKER INJURY							
B. CONTAMINATION B. OF WATER SUPPLY							
CONTAMINATION OF FOOD CHAIN							
7. CONTAMINATION OF GROUND WATER				;			
8. CONTAMINATION 8. OF SURFACE WATER			!				
9. DAMAGE TO FLORA/FAUNA							
10. FISH KILL				,			
CONTAMINATION OF AIR							
12. NOTICEABLE ODORS				·			
18. CONTAMINATION OF SOIL							
14. PROPERTY DAMAGE			: 				
1. FIRE OR EXPLOSION							
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS							
17. SEWER, STORM DRAIN PROBLEMS							
TE, EROSION PROF. EVS	;						
16 INAGEQUATE SECURITY							
20. INCOMPATIBLE WASTES			!				
21. MIDNIGHT DUMPING	,			·			
22. OTHER (specify):			:				
			1				

1317日の一次の問題は大野の神経の情報のある。 1917日

Continued From From	· · · · · · · · · · · · · · · · · · ·	II. PERMIT INFO	RMATION
A. INDICATE ALL APPLICABLE PER			RMATION
·			
1 NPDES PERMIT _ 2 SPC	C PLAN	3. STATE PERMIT	specify): AWIC
4. AIR PERMITS 5. LOC	AL PERMIT	6. RCRA TRANSPO	RTER
7 RCRA STORER B RCF	RA TREATER	9 RCRA DISPOSER	•
10. OTHER (specify): No	te: the mai	ale Cristin	Bon R of Health is inchanged AN Person
B. IN COMPLIANCE?		3. UNKNOWN	· · · · · · · · · · · · · · · · · · ·
			• •
4 WITH RESPECT TO (list regul			
	VIII. I	AST REGULATO	RY ACTIONS
A. NONE B. YE	S (summerize below)	
/			
	IV man	71011 107111	
	1A.3N3-E	LITON ACTIVITY	(past or on-going)
A NONE B. YES	G (complete items 1,	2,3, & 4 helow)	
1 TYPE OF ACTIVITY	2 DATE OF PAST ACTION	3 PERFORMED	4. DESCRIPTION
1 TYPE OF ACTIVITY	(mo., day, & yr.)	(EPA/State)	i
- 77 / 7	1-31-55	AWIE	Nomiton Organic While intherm from
Inspection & monitoring	13-3-20	STATE	(D.O.T.W) . WIS MINION TO WINE THINK
Mabile County Board	7-18-75	MOBILE POUNTS	Amuel disurt in ordinas, no recomment.
SEMBITA, INCOMETION		(007.3	1
	X. REM	EDIAL ACTIVITY	(past or on-going)
A. NONE B. YE	5 (complete items 1,	2, 3, & 4 below)	
1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	S. PERFORMED BY (EPA/Sinte)	4. DESCRIPTION
<u> </u>	 	+	
	1	-	
•		<u> </u>	
			A de Ballida Assaula (Casalas III)
\			1 out the Preliminary Assessment (Section II)
information on the firs	t page of this for	rm.	
PA Fo.in T2070-2 (10-79)		PAGE 4 OF	4

					SITE NUMBER		
SEPA POTENTIA	L HAZARD	OUS WASTE SITE LOG		86			
NOTE: The initial identification of a potential state ation that an actual health or environment waste Site Enforcement and Response Sy	ntal threat ex	ists. All identified sites will be	assessed un	der the EPA'			
SITE NAME PMERICAN CYARAMI'LE COP CITY	ngery			*			
Mobile SUMMARY OF POTENTIAL OR KNOWN PROBLEM		PLa.	•	3661	14		
- alien mud imparioned 2- Holding Efficient for Organic A	FFLuent						
!*EM	DATE OF DETERMINATION OF COMPLE- TION	RESPONSIBLE ORGANIZATION OR 'NO' V'DUAL (EFA. State, Contractor, Other)	TO L.C	N MAKING NTRY OG FORM	DATE ENTERED ON LOG (mo,dey,yr)		
1. IDENTIFICATION OF POTENTIAL PROBLEM	11.3.70		Javie	A. Cola	2/4/80		
2. PRELIMINARY ASSESSMENT	1/22/93		JAVIA	A. Colon	3/4/80		
APPARENT SERIOUSNESS OF PROBLEM	нісн	MEDIUM XLOW NO	ONE TOU	NKNOWN	1		
3. SITE INSPECTION			i		1		
4. EPA TENTATIVE DISPOSITION (check appropriate itea://below)							
. NO ACTION NEEDED							
b. INVESTIGATIVE ACTION NEEDED							
c. REMEDIAL ACTION NEEDED		! !			· 		
d. ENFORCEMENT ACTION NEEDED	r .	1	;		;		
5 EPA FINAL STRATEGY DETERMINATION 5 (Check appropriate item(e) below)	:						
I A. NO ACTION NEEDED		· }					
Th. PEMEDIAL ACTION NEEDED							
C. NO RESCURSES ALA LABLE							
d. ENFORCEMENT ACTION NEEDED							
(1) CASE DEVELOPHENT PLAN PREPARED				_ _	<u> </u>		
					- -		

EPA Form T2970-1 (10-75)

6 STRATEGY COMPLETED

2	FPΔ	

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

AL DOOB 175 408

PART	1 - SITE INFORMA	ATION A	ND ASSESSMEN	T AL	D008 175 408
II. SITE NAME AND LOCATION		********			
American Cyanamid			B. Box 192	ECIFIC LOCATION IDENTIFIER	
Mobile		1 .	36633		07COUNTY 08 CONG CODE DIST
09 COORDINATES LATITUDE LO 88 (NGITUDE				
from South on 43 turn left on	paper mill	Rd.,9	0 3/4 mi. the	en turn læft on G	yanamid Rd.
then go 3/4 mi: to Plant			·		
III. RESPONSIBLE PARTIES					
O1 OWNER (11 mount) American Cyanamid Con	pany	02 STREE	Cyanamid	Plaza	<u> </u>
vayne		04 STATE	05 ZIP CODE 07470	00 TELEPHONE NUMBER	
07 OPERATOR (If Innoven and different from owner)			T (Business, mailing, reside	<u> </u>	<u> </u>
09 CITY .		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	T
• •		L		()	
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE B. FEDERAL: F. OTHER: (Specific one)	(Agency name)		C. STATE	-	INICIPAL
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply) A. RCRA 3001 DATE RECEIVED: 1 07.90 MONTH DAY YEAR	. B. UNCONTROLL	LED WAST	E SITE (CERCLA 103 c)	DATE RECEIVED: /	AY YEAR
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
5.	hech all that apply) , EPA 🔯 B. EPI	A CONTRA	CTOR C:	STATE D. OTHER	CONTRACTOR
I IIVES DAIF ()	. LOCAL HEALTH OFF				CONTRACTOR
US NO	ITRACTOR NAME(S):			(Specify)	
02 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNKNOWN	03 YEARS OF OPER	TATION 1939			<u> </u>
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOW		BEGINNING YE	AR ENDING YEA	м	
Alum, Tolvene					
os description of potential hazard to environment an release of low pH Alums		ills o	f Tolvens	<	
V. PRIORITY ASSESSMENT		····			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked A. HIGH B. MEDIUM	C. LOW		D. NONE		
(Inspection required promptly) (Inspection required)	(Inspect on time	MANAGON CARN	(No tartner a	ction needed, complete current dispos	mon romy
VI. INFORMATION AVAILABLE FROM	02 OF (Agency/Organia	zetinel	 		03 TELEPHONE NUMBER
Steve Maurer Scm	A	DEM		·	1051271-7728
Jim Duncan	05 AGENCY	EP!	NIZATION	07 TELEPHONE NUMBER (601) 972-8242	08 DATE 69 / 03 / 85 MONTH DAY YEAR

-	
V	١

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	TECATION
O1 STATE	02 SITE NUMBER DOOR 175 408

ACI	_		PART 2 - WAST	E INFORMATION		ALIVO	8 145 408
IL WASTE ST	TATES, QUANTITIES, AN						
A. SOLIO	I	must be	V weste quantifies independent)	O3 WASTE CHARACTE A TOXIC B. CORROS C. RADION D. PERSIST	CTIVE G. FLAMI	BLE II. HIGHLY! TIOUS II. J. EXPLOS MABLE III. K. REACTI	IVE VE PATIBLE
		NO. OF DROMS		<u> </u>			
HI. WASTET	YPE SUBSTANCE N.		Tarana				
SLU	SLUDGE		01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
OLW	OILY WASTE	· · · · · · · · · · · · · · · · · · ·	1-1/A				
SOL	SOLVENTS		1				·
PSO	PESTICIDES		1				
occ	OTHER ORGANIC CH	EMICALS	 				
IOC	INORGANIC CHEMIC			 			
ACD	ACIDS						
BAS	BASES		1 - 1		 		
MES	HEAVY METALS						
IV. HAZARDO	OUS SUBSTANCES 1500 AF	pendix for most frequen	tly cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISF	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
	2/1	<u> </u>					
	7"						
				<u> </u>			<u> </u>
			<u> </u>				
			ļ			ļ	
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						 	-
				<u> </u>			}
	 		<u> </u>				
			 	 			
	 		}	 			}
			<u> </u>				
V. FEEDSTO	CKS (See Appendix for CAS Numbe	wa)	1	L		<u> </u>	L
CATEGORY	01 FEEDSTOC		02 CAS NUMBER	CATEGORY	O! FEEDSTO	DCK NAME	02 CAS NUMBER
FDS	05223100			FDS	3.1.2.301		
FDS			 	FDS			
FDS	1-1/A		 	FDS			
FDS	- 		 	FDS			
	S OF INFORMATION ICHO	specific references, a o	, state files, sample analysis.	<u> </u>			
	n Files, Conve				Plant Mana	lger .	

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE 01 STATE 02 SITE NUMBER AL DOS 175 408 PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS 01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: _ ☐ POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: None Observed 01 B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 COBSERVED (DATE: _ ☐ POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION UNK 02 OBSERVED (DATE: . 01 C. CONTAMINATION OF AIR ☐ POTENTIAL ☐ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: _ 04 NARRATIVE DESCRIPTION UNK

01 D. FIRE/EXPLOSIVE CONDITIONS 02 G OBSERVED (DATE: ☐ POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NA 01 DE DIRECT CONTACT 02 OBSERVED (DATE: ☐ POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 01 D F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: ☐ POTENTIAL ☐ ALLEGED 03 AREA POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** (Acres) UNK 02 GOBSERVED (DATE: 01 G. DRINKING WATER CONTAMINATION ☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

02 COSERVED (DATE:

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

□ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: __

03 POPULATION POTENTIALLY AFFECTED:

M/A

01 - H. WORKER EXPOSURE/INJURY

UNK

A Secretary of the second

&EPA

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION 01 STATE 02 SITE NUMBER AL DOOB 175408 PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	8 121-112	<u> </u>
N. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
N/A			
01 G K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (include name(s) of species)	02 C OBSERVED (DATE:)	☐ PÓTENTIAL	☐ ALLEGED
MA	:		
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	C POTENTIAL	☐ ALLEGED
2/1			
01 M. UNSTABLE CONTAINMENT OF WASTES (Spille/runoff/stending liquide/leaking drums)	02 🗆 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
01 O N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
VMK			
01	02 G OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
UNK			
01 D P ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
1/4			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZAROS		
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cité apecific references, e.g., state files.	sample analysis, reports)		·
ADEM Files, Conversation with		anager	
Ì			

Re: ALD 008 17568

August 14, 1985

Mr. R. B. Melton
Plant Manager
American Cyanamid Company, Inc.
P. O. Box 1924
Mobile, Alabama 36633

Dear Mr. Melton:

On March 31, 1985, the Alabama Department of Environmental Management (ADEM) received a grant from the U. S. Environmental Protection Agency (EPA) to conduct a CERCLA Hazardous Waste Site Inventory Program.

The purpose of the inventory program is to screen and evaluate potential hazardous waste sites and identify any public health or environmental problems these sites may pose.

The list of sites to be screened is determined by EPA, and includes primarily those companies that notified under Section 3005 of RCRA or Section 103(c) of CERCLA (the legislation establishing Superfund).

Since this is a one-time, nonrecurring appropriation, ADEM has elected to complete the inventory by use of a private contractor. Environmental Protection Systems, Inc. (EPS), Jackson, Mississippi, has been selected to perform the necessary work.

The first task of EPS will be to review information in ADEM files. However, in order to verify certain information and fill in data gaps, it will be necessary for EPS to contact each company on the inventory list, by telephone. Telephone contacts will be made within a nine-month period, beginning on July 23, 1985.

In some cases, an inspection will be necessary in order to complete the site assessment report. The inspection phase of the inventory is currently scheduled for October 1985 through March 1986.

In order to carry out this program in a reasonable and timely manner, with a minimum of inconvenience to you, I respectfully request your cooperation and assistance.

If you have any questions about the project, please contact me at (205) 271-7728.

Sincerely,

Stephen C. Maurer, Chief Special Services Section Land Division

SCM/bw

(Title)

 Location 	of Installation: Cyanamid					
Mobi	le	— Mob:	<mark>(Stree</mark> t or Rout ile	e Number' AL		36614
	r Town)		inty) ''	(Stat	е)	(ZIp Code)
V. installa	tion Contact: T. E. Hankins	S		205	457-6601	
	(Name)			(Area Code)	(Telephone Numb	er)
V. Waste Id	entification:		•			
A. EPA Waste Number	B. Description of C. Quantity Haste Generated (LBS)		D. Amount of 1. Handling Method	- 1		ff-Site Treatment Recovery Facility
			Code	Disposed, or Recovered On-Site	3. Quantity	4. Facility EPA No./Recovery Facility Name
D001	Styrene Monomer, Inh.	2000 lbs.	S01 (0)	4 - 85 gal. drums	2000 lbs.	ALD 000622464
D001	Styrene Monomer, Inh.	1000 lbs.	S01 (0)	2 - 55 gal. drums	1000 lbs.	ALD 000622464
U122	Waste Paraformaldehyde	22000 lbs.	S01 (0)	44 - 55 gal. drums	22000 lbs.	ALD 000622464
U007	Acrylamide 50% Aqueous	90 lbs.		2 - 5 gal. bucket	90 lbs.	ALD 000622464
						26.24
	(If	more space is need	led, check	ind complete Attachment I)	

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information i believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting talse information including the possibility of fine and imprisonment.

(Print or Type Name)

(Signature)

ALAGAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LAND PROGRAM

LAND PROGRAM

19.83 Hazardous Wasth Generator and On-Site TSD Facility Annual Report

ı	. 1112 (01)	A : redmuN GI A93 noit	LIDIO(0181117151410181				
1.1	. Name of	Installation:	AMERICAN CYANA				
111	Location	of Installation:	Cyanamid Road				
	Mobi	le	M	(Street ⊕r Rout obile	e Number) Al	,	36614
	(City o	r Town)	(α	ounty)	(Stat		(ZIp Code)
١٧	. Installa	tion Contact:	T. E. Hankins		205	457-6601	
		(Name)			(Area Code)	(Telephone Numb	er)
V		entification:					
er.	A. EPA	B. Description of	C. Quantity		Waste by Handling Metho		ff-Site Treatment
Number	Waste Number	Waste	Generated (LBS)	1. Handling Method	2. Quantity Stored, Treated) ''	Recovery Facility
Line Nu				Code	Disposed, or Recovered On-Site	3. Quantity	4. Facility EPA ID No./Recovery Facility Name
1.	U007	Waste Combustible L	iquid, 41,410#	S01 (0)/	82 - 55 gal. drams	41,410#	ALD 000622464
2x	(Petrole	um Naptha & Acrylami	de from Polyacrylami	de Emulsion M	nufacturing)	¥ .	
2. XX	U007	Hazardous Waste Sol N.O.S.	id, 935#	S01 (0)	2 - 55 gal. drums	935#	ALD 000622454
XIX		(Acrylamide)					
5.							
	·		(If more space is nee	eded, check a	nd complete Attachment I)	
٧1.	Closure	Cost Estimate for Facili	ties \$ 10.700.00				
V11.			onitoring and Maintenance	(Disposal Facilii	ty Only) \$/A		
7 11.	, wsi esi	Time for FOST-Closure M	onitoring and maintenance	(UISPOSAI FACIII	ty Only) \$:/A		•
111.	Certific	ation:					
			R. B. <u>Me</u>	lton	<u>F</u>	lant Manager	
		(Signature)		Print or Type Nam		(Tit	·····

documents and that based on my inquiry of those individuals immediately responsible to the information i believe that the submitted information is true, accurate and complete. I am aware that there are significant

ties for submitting false information

ALAGAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT LAND PROGRAM

Pomician Cyanand Company

 19_82 Hazardous Waste Generator and On-Si \neq e TSD Facility Annual Report

NOTE	E: Read all Instructions prior to completing this form.									
. 1	. Install	Installation EPA ID Number: AIDO08175408								
11	. Name of	Name of Installation: American Cyanamid Company								
111	······································									
	Mob	i le	e Number) Alaba	36614						
	(CI ty	or Town)	(Cou	inty)	(State	9)	(Zip Code)			
١٧	• Install	ation Contact: T. i. Hanki	ns		205	457-6601				
		(Name)			(Area Code)	(Telephone Numb	er)			
¥	. Waste I	dentification:		<u> </u>						
1	A. EPA	8. Description of	C. Quantity		Waste by Handling Method					
Number	Waste Number	Waste	Generated (LBS)	1. Handling Method	2. Quantity Stored, Treated	1 ' '	o Off-Site Treatment or Recovery Facility			
			(200)	Code	Disposed, or	3. Quantity	4. Facility EPA ID			
Line					Recovered On-Site		No./Recovery Facility Name			
1.	D001	Styrene Monomer, Inhibited	17,325#	S01 (0)	42 - 55 gal. drums	17,325#	ALD 000622464			
2.		Flammable Liquid			 					
3.	 									
4.										
5.										
		(If mk	ore space is need	led, check a	nd complete Attachment I)	<u> </u>			
ΔI	. Closure	Cost Estimate for Facilities \$ 10,	700 00	***						
•										
¥11	. Cost Es	timate for Post-Closure Mcnitoring	and Maintenance (Disposal Facili	ty Only) \$ N/A					
¥111	. Certifi	cation:								
		Pt Beetra		B. Melton		Plant Manage	er			
	·	(Signature)		int or Type Nam	e)	(Tit	ie)			

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the submitted intermation is the accounter and complete. I am aware that there are significant penalties for submitting talse information

JUL 2 6 1985

4WD-KM

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. R. B. Melton Plant Superintendent American Cyanamid Company Cyanamid Road Post Office Box 1924 Mobile, Alabama 36601

Re: American Cyanamid - EPA I.D. Number ALD 008 175 408 Your letter to EPA dated July 2, 1985

Dear Mr. Melton:

This is in reference to our telephone conversation on July 22, 1985. As discussed, please submit the documentation required by 40 CFR §260.31(b) (50 FR 662). This information will be evaluated to determine applicability of the solid waste variance for your process solvent toluene waste stream. If the toluene stream is determined a solid waste, then additional information will be required to determine all RCRA regulated units associated with storage and/or disposal.

It there are questions, please contact Caron Falconer at 404/881-3067. Sincerely yours,

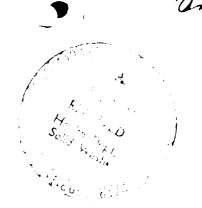
James H. Scarbrough, P.B., Chier Residuals Management Branch Waste Management Division

cc: Daniel E. Cooper, Alabama Department of Environmental Management Allan Antiey, Waste Compliance Section



American Cyanamid Company Washer NJ 6 1470

CERTIFIED MAIL RETURN RECEIPT REQUESTED



July 12, 1982

Mr. Michael Smith Department of Public Health Division of Solid & Hazardous Waste 434 Monroe Street Montgomery, AL 36130

Gentlemen:

American Cyanamid Company (or one of its subsidiaries) operates plants in your state which are subject to regulation as treatment, storage or disposal facilities under the Resource Conservation & Recovery Act (RCRA). These plants are listed in the attached Certificate of Insurance.:

Cyanamid chooses to demonstrate compliance with the requirements of 40CFR264.147 and 40CFR265.147, which call for proof of liability insurance covering sudden and accidental releases at these RCRA facilities, by providing the attached Certificate of Insurance for these facilities to your office.

We believe that this submittal fulfills all of Cyanamid's present responsibilities and obligations under this aspect of these regulations.

If you have any questions regarding this submittal, please contact the undersigned at (201) 831-3261.

Very truly yours,

AMERICAN CYANAMID COMPANY

T. A. Caldwell, Jr.

Director, Corporate Insurance

TAC:kr Attachment



American Cyanamid Camerasy

June 30, 1982

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Michael Smith
Department of Public Health
Division of Solid & Hazardous Waste
434 Monroe Street
Montgomery, AL 36130

Dear Mr. Smith:

American Cyanamid Company (or one of its subsidiaries) operates the following plants in your state which are subject to regulation as treatment, storage or disposal facilities under the Resource Conservation and Recovery Act (RCRA):

		Cost Estimates				
EPA I.D. No.	Location	Closure	Post Closure			
ALD008175408	Mobile	\$10,000	-			

Cyanamid chooses to demonstrate financial assurance for closure/post-closure care of the RCRA facilities at these locations through the financial test specified in Subpart H of 40CFR Parts 264 and 265. In support of this action, the attached letter and certification have been sent to the Regional Office of the EPA Region in which your state is located.

The attached copies are being sent to you for your information and use.

We believe that this submittal fulfills all of Cyanamid's present responsibilities and obligations under this aspect of these reculations.

Ted Harris at (201) 831-3901.

Very truly yours,

AMERICAN CYANAMID COMPANY

Mr. Harris

TH0630/f j1

ATTACHMENT

(Mobile 6.) December 17, 1981 Mr. R. B. Melton Plant Hanager American Cyanamid Company P. O. Boz 1924 Mobile, Alabama 36601 Dear Mr. Malten: This is in response to your October 1, 1981, letter requesting permission to dispose of 27,200 pounds of stearic anhydride in the Chunchula Landfill. Based upon the fact that your company has proven the waste to be non-baserdous, permission to dispose of this material is granted. If you have any questions about this matter or if we can be of further assistance, please contact this effice.

Ruy 22, 1981

The results from samples taken from your monitoring wells on April I, 1981 are enclosed. The concentrations suppress Jook quits normal for your eres. The next scheduled samples will be during September 1981 to complete background

HEHOFVEDEN

American Cyanamid Company Plant Superintendent C. Z. Rothenenger : OL

FROM: L. G. Linn, Jr.

Reference Amelyst

Divinion of Solid & Reperspent Names Monttoring & Survaillence Section

: EX

ta: 101

Enclosures

VIRONMENTAL HEALTH ADMINISTRAT LADIVISION OF COLLE AND HALLARDOUS WADTE

American Cyanamide Co.	SW 903-906	L. G. Linn, Jr.		
sampling location	Laboratory Sample Number	Collector		
4/1/81	MW #4	5/15/81		
Collection Date	Type Analysis	Date Re	ported	
	Other Sample Information			
н	6.6	Arsenio as As	<.01 mg/1	
pecific Conductance	umho/em	Barium as Ba	<.5 mg/1	
otal Dissolved Solids	209 mg/l	Cadmium as Cd	<.05 mg/1	
lkalinity, Total as CaCO3	115 mg/l	Chromium as Cr	<.05 mg/1	
midity, Total Mineral, as CaCO ₃	mg/1	Lead as Pb	<.5 mg/1	
aloride as Cl	4.0 mg/1	Mercuny as Hg	<.001 mg/1	
hromate as CrOh	mg/l	Selenium as Se	<.01 mg/1	
luoride	mg/1	Silver as Ag	€.05 mg/1	
ardness, EDTA as CaCO3	mg/l	Aluminum as Al	0.88 mg/l	
itrate Nitrogen as N	mg/:	Calcium as Ca	mg/1	
hosphate as P	4. 1 mg/1	Copper as Cu	mg/1	
ilica as SiC ₂	mg/1	Iron as Fe	0.89 mg/1	
ulfate as SO _l	14.5 m ₅ /1	Magnesium as.Mg	mg/l	
urbidity	JTU	Manganese as Mn	mg/l	
hemical Oxygen Demand (COD)	7.6 mg/1	Nickel as Ni	mg/l	
yanide as CN	mg/1	Potassium as K	ng/1	
il and Grease	m ₆ /1	Sodium as Ma	5.8 mg/1	
henois	≤. 02	Zinc as Zn	mg/1	
cid Extractables	mg/1	Pesticides	mg/1	
ase Neutrals	mg/l	Lindane	mg/1	
rganochlorine Pesticides	Ø :ng/1	Endrin	mg/1	
rganophosphorous Pesticides	Ø mg/1	Toxaphene	mg/1	
platile Organics	mg/1	Methoxyclor	mg/1	
23's	<u>0</u> mg/1	Herbicides	mg/1	
	mg/l	2,4-0	mg/1	
	mg/2	3,4,5-TP	mg/1	
	mg/1	Radioactivity	_	
		Alpha	pCi/1	
emarks:		Зеta	pCi/1	
		Jamma Scan	To the same area of the same o	
	•		The second secon	

)W

OPH-F-SW-3/Rev. 01/81

ATE OF ALABAMA HEALTH DEPARTMENT OF VIRONMENTAL HEALTH ADMINISTRAT OF SOLID AND HAZARDOUS WASTE

Sampling Location Laboratory Sample Number 4/1/81 MW #3 Collection Date Type Analysis Muddy water, water level at 6 feet Other Sample Information	5/15/81 Date Reported ion Arsenic as ismg/1
Collection Date Type Analysis Muddy water, water level at 6 feet Other Sample Informat H 6.1umho/or	Date Reported ion Arsenic as is 2.01 mg/l m Darium as Ba 5.5 mg/l
Muddy water, water level at 6 feet Other Sample Informat H pecific Conductanceumho/or	ion Arsenic as is <.01 mg/l m Barium as Ba <.5 mg/l
Other Sample Informat H umho/orumho/or	Arsenic as is 2.01 mg/l m Darium as Ba 5 mg/l
H 6.1 pecific Conductance umho/c	Arsenic as is 2.01 mg/l m Darium as Ba 5 mg/l
pecific Condustanceumho/s	m Barium as Ba <-5 mg/l
otal Dissolved Solids 523 mg/1	Cadmium as Cd 🗸 .05 ma/1
lkalinity, Total as CaCO3 45 mg/l	Chromium as Cr ≤ .05 mg/l
oidity, Total Mineral, as CaCO3mg/l	Lead as Pb <2.5 mg/1
hloride as ClT <u>2.5 mg/l</u>	Mercury as Hg <.001 mg/1
hromate as OrOLmg/1	Selenium as Se $\leq .01$ mg/1
Dabridemg/l	Silver as Ag $\checkmark 05 \text{ mg/1}$
irdness, EDTA as CaCO3mg/l	Aluminum as Al 4.93 mg/1
Itrate Nitrogen as N .25 mg/l	Calcium as Ca mg/1
nosphate as Pmg/l	Copper as Cumg/l
Ilica as 3i0g = mg/1	Iron as Fe 14.81 mg/1
mg/l 62.0 mg/l	Magnesium ds. Msmg/1
irbialty	Manganese as Mn mg/1
nemical Daygen Demand (COD) 22.9 mg/1	Nickel as Nimg/l
ranilie as CNmg/l	Potassium as K mg/l
	Sodium as Na 17.6 mg/l
<.02 ng/1	Zinc us Znmg/l
mg/1	Pesticides mg/l
use Neutrals mg/1	Lindane mg/1
ganochlorine Pesticides Ø mg/1	Endria mg/l
ganophosphorous Pesticides 0 mg/1	Toxaphenemg/1
platile Organicsmg/1	Methoxyclor mg/1
181smg/1 *	Herbicides mg/l
mg/l	2,4+Dmg/l
	1,4,5-TP mg/1
mg/l	Radioactivity
	AlphapCi/1
marks:	3etapCi/1
	Gamma Sean

A STATE OF THE STA

TE OF ALABAMA HEALTH DEPART' ENVIRONMENTAL HEALTH ADMINISTRATION DIVISION OF COLID AND HAZARDOUS WASTE

American Cyanamid Company	SW-895-898	L. G. Linn,	Jr.		
Sampling Location 4/1/81	Laboratory Sample Number MW #2	Collector 5/15/81			
Collection Date	Type Analysis	Date Re	rorted		
Clear water, water level at 16 fee			F		
	Other Sample Information				
DH	5.1	Arsenic as As	€.01	mg/l	
Specific Conductance	umho/sm	Barium as Ba	€.5	mg/l	
Cotal Dissolved Solids	61 mg/1	Cadmium as Ci	< .05	 _mg/l	
Alkalinity, Total as CaCO3	20 mg/l	Chromium as Or	€.05	mg/1	
Coldity, Total Mineral, as CaCO ₃	mg/1	Leaf as Pb	4. 5	mg/l	
Miloride as MiT	4.0 mg/1	Mercury as Hg	€.001		
e e e e e e e e e e e e e e e e e e e	mg/l	Selenium as Se	€.01		
Tuloride	< 0.1 mg/1	Silver as Ag	€.05	mg/1	
Gardness, EDTA as CaCO _Q	mg/1	Aluminum as Al	1.35	mg/1	
itrate Nitrogen as N	-0.48 mg/1	Calcium as Ca		 _mg/1	
nosphate as P	<.1 mg/1	Copper as Cu		mg/1	
iliza as SiGo	mg/1	Iron as Fe	1.49	 _mg/l	
Sulfate as SO _L	3.0 mg/1	Magnesium as Mg		$m_{f g/1}$	
Purbidity	್ರಾ ರ್	Manganese as Mn		mg/l	
Chemical Oxygen Demand (COD)	13.7 mg/1	Nickel as Ni		_mg/l	
Syanide as CN	mg/l	Potassium as K		mg/l	
Dil and Grease	mg/1	Sodium as Na	2.2	 _mg/l	
Phenols	≤. 02 mg/l	Zinc as Zn		mg/1	
acid Extractables	mg/l	Pesticides		_mg/l	
ase Neutrals	mg/l	Lindane		mg/l	
rganochlorine Pesticides	<u>Ø</u> ing/1	Endrin		_mg/l	
organophosphorous Pesticides	Ø mg/1	Toxaphene		_mg/l	
Volatile Organics	mg/1	Methoxyclor		mg/1	
C31s	Ø mg/1	Herbicides			
	mg/l	2,4-0		mg/1	
	mg/1	2,4,5-TP		mg/1	
	mg/1	Radioactivity		_	
		Alpha		_pCi/	
emarks:		3eta		pCi/	
		Jamma Scan			

1DPH-F-SW-3/Rev. 01/81

American Cyanamid Chemical Co.		L. G. Linn, Jr.		
Sampling Location 4/1/81	Laboratory Sample Number MW #1	Collector 5/15/81		
Collection Date Clear water, water level at 12 fe	Type Analysis	Date Re	ported	
	Other Sample Information			 -
рН	_5.7	Arsenic as As	⋖ .01	mg/1
Specific Conductance	umho/cm	Barium as Ba	<.5	mg/1
Total Dissolved Solids	108 mg/1	Cadmium as Cd	<.05	mg/1
Alkalinity, Total as CaCC3	30 mg/l	Chromium as Cr	€.05	 mg/l
Acidity, Total Mineral, as CaCO3	mg/1	Lead as Pb	<. 5	_mg/1
Chloride as Cl ⁻	<u>8.5</u> mg/1	Mercury as Hg	<.001	_mg/1
Chromate as CrO _L	mg/1	Selenium as Se	<.01	mg/1
Fluoride	≪ 0.1 mg/1	Silver as Ag	€.05	mg/1
Hardness, EDTA as CaCO3	mg/1	Aluminum as Al	.95	 mg/1
Nitrate Nitrogen as N	28mg/1	Calcium as Ca		mg/I
Phosphate as P	6.1 mg/1	Copper as Cu		_mg/1
Silica as SiO ₂	mg/l	Iron as Fe	4.28	mg/1
Sulfate as SO _L	17.5 mg/l	Magnesium as Mg		mg/l
Turbidit,		Manganese as Mn		mg/1
Chemical Dxygen Demand (JOD)	22.9 mg/1	Nickel as Ni		mg/1
Cyanide as CN	mg/l	Potassium as K		mg/1
Oil and Grease	mg/1	Sodium as Na	12.0	mg/l
Phenols	≤. 02 mg/1	Zinc as Zn		mg/:
Acid Extractables	mg/l	Pesticides		mg/:
Base Neutrals	mg/1	Lindane		mg/
Organochlorine Pesticides	Ø mg/1	Endrin		mg/:
Organophosphorous Pesticides	Ø mg/1	Toxaphen e		mg/:
Volatile Organics	mg/1	Methoxyclor	**************************************	mg/:
PCB's	<u>0</u> mg/1	Herbicides		mg/:
	mg/l	2,4-0		mg/1
	ng/1	2,4,5-TP		mg/1
	mg/1	Radioactivity		
		Alpha		pCi,
Remarks:		Beta		pCi/
		Gamma Scan		

Please print or type in the unshaded areas or [fill_birareas are spaced for elite type, i.e., 1	nly 12 charees /inch).		Form Approved OMB No. 1	58-R0175			
FORM O EDA	GENERAL INFO	-	I. EPA I.D. NUMBER	/AC			
BENERAL SEPA	Consolidated Parmit (Read the "General Instruction		F A L D 0 0 8 1 7	.5.4.0.8 SD			
L EPA I.D. NUMBER	11/1/60	RRXX///	If a preprinted label has b	een provided, affix			
			it in the designated space. ation carefully; if any of i	t le incorrect, cross			
III. PACILITY NAME			through it and enter the appropriate fill—in area being the preprinted data is absention.	low. Also, if any of			
V. PACILITY	PLEASE PLACE LABEL I	A CONTO	left of the label space lit that should appear), please	its the information			
4444	LEVOE LEVOE EVDEL	IN THIS SPEE	proper fill—in area(s) belo complete and correct, you	w. If the label is			
			Items I, III, V, and VI (must be completed regard	liess). Complete all			
VI. LOCATION			items if no label has been the instructions for deta	illed Item descrip-			
			tions and for the legal as which this data is collected.				
II. POLLUTANT CHARACTERISTICS			×				
INSTRUCTIONS: Complete A through questions, you must submit this form and	d the supplemental form listed in	the parenthesis following the qu	estion. Mark "X" in the box in	the third column			
If the supplemental form is attached, If y is excluded from permit requirements; see							
SPECIFIC QUESTIONS	VSS HO ATTACH	SPECIFIC	BUESTIONS	MARK X			
A. Is this facility a publicly owned to	restment works	B. Does or will this facility	(either existing or proposed) enimal feeding operation or	1 1			
which results in a discharge to water (FORM 2A)			on facility which results in a	x			
C. Is this a facility which currently results to waters of the U.S. other than the		D. Is this a proposed facility	y lether than these described will result in a discharge to	X			
A or B above? (FORM 2C)	2 X 2 X 27 2	uniters of the U.S.? (FOF					
E. Does or will this facility treat, store hezerdous westes? (FORM 3)	X X	municipel effluent below teining, within one qu	the lowermost stratum con- acter mile of the well bore, frinking water? (FORM 4)	х			
G. Do you or will you inject at this facility water or other fluids which are brough		H. Do you or will you injec	t at this facility fluids for spe-				
in connection with conventional oil or duction, inject fluids used for anhance	netural gas pro- X	process, solution mining	ining of sulfur by the Fresch of minerals in situ combus-	X			
oil or natural gas, or inject fluids for a hydrocarbons? (FORM 4)	2 V 2 2 PM 4	(FORM 4)	sovery of goddharmel energy?	B 2 B B B B B B B B B B B B B B B B B B			
I, is this facility a proposed stationary one of the 28 industrial categories in the	listed in the in-	NOT one of the 28 ind	ed stationary source which is ustriel categories listed in the				
structions and which will potentially per year of any air pollutant regul Cleen Air Act and may affect or be	ated under the	per year of any air pollut	vill potentially emit 250 tons tant regulated under the Clean or be located in an attainment	x			
attainment area? (FORM 5)	4 1 4 1	gres? (FORM 5)		स स स			
	Y.A.N.A.M.I.D. C.O.	W D A N V					
IV. FACILITY CONTACT	1.A.N.A.M.1.D	M. P. A. N. Y	<u> </u>	'ਜ਼-			
A. NAME	TITLE flast, firet, & \$100)		. PHONE (area code & no.)				
2 M.E.L.T.O.N., R. P.L.	TS.U.P.E.R.I.N.	T.E.N.D.E.N.T. 2.0	ي مبع ۾ ج ۽ ا	F			
V. FACILITY MAILING ADDRESS	TREET OR P.O. BOX						
3 P O B O X 1,924				·			
B. CITY O	RTOWN	C.STATE B. EIP CO					
MOBILE AL 3.6.6.3.3							
A. STREET, ROUTE NO. ON OTHER SPECIFIC IDENTIFIER							
5 C.Y.A.N.A.M.I.D. R.O.A.D.							
8. COUNTY				•			
MOBILE			· · · · · · · · · · · · · · · · · · ·				
E. CITY OF		D.STATE E. ZIP COD	F. COUNTY CODE				
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EPA Form 3510-1 (6-80)		COLOR DE LA COLOR	COULTE	ហ្គារី កាក់ម លក់ ទូក កែង ខ្			

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C. TH	190	11 11 - 11	Water Treating Compounds
(specify)		s (specify)	
8 2 1	Synthetic Resins	7	•
OPERATOR INFORMATION			the state of the state of the state of
	A. NAME		B. Is the name listed Item VIII-A also
		, . ,	owner?
	A, N, A, M, I, D, C, O, M, P	.A. N. Y	YES N
C STATUS OF OPERATOR /FM	ter the appropriate letter into the ani	twer box: if "Other", mecify 1	D. PHONE (area code & no.)
FEDERAL M - PUBLIC (other than federal or state)	(specify)	
= STATE	pecify) P		A 2 0 1 8 3 1 2 0 0 0
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RDAN AVENU	E		
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F. CITY	CORTOWN	G,STATE H. ZIP C	Is the facility located on Indian lands?
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ISTING ENVIRONMENTAL PERN	MITS	postale title i e e e	The second secon
A NPDES /Discharges to Surface W		ons from Proposed Sources)	
A, L, O, O, O, 2, 7, 4, 7,	9 P		See attached sheet for
17 11	39 (3) (4) (3) (4)	20 (200)	additional State permits
B. Ut ground Injection of Fi		HER (apecify)	(apecify)
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C. RCRA (Hasardous Wastes)	8 (1) (6 (7 (8 E. 07)	HER (apectfy)	
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		5007	(specify)
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8.	descr PROI 1. A 2. U	ibe i CES MOI NIT	codes. If more lines the process (including DESIGN CAPACIUNT — Enter the arm OF MEASURE — Fore used. Only the unit of the process of the control of the cont	rg its design capaci TY — For each cor- nount, for each amount er inits of measure the PRO- APPI	ty/ in the speci de entered in colum et are listed be ROPRIATE UN	e provide olumn A on B(1), i ow shou IITS OF	enter enter enter t eld be e	the for the ca	m (Item I pecity of	(I-C). the process.		ow that describes	the unit of E UNITS OF
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II. PROCESSES (continued)	The second secon	A STATE OF THE STA
SPACE FOR ADDITIONAL PROCESS CODES O INCLUDE DESIGN CAPACITY.	OR DESCRIBING OTHER PROCESSES (code "T04_	FOR EACH PROCESS ENTERED HERE

Line No.	Process Code	Explanation						
1	S01	Waste is accumulated in 55 gallon drums.						

V. DESCRIPTION OF HAZARDOUS WASTES	
. EPA HAZARDOUS WASTE NUMBER — Enter the	four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you
handle hazardous wastes which are not listed in 40 (CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteris-

- ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- UNIT OF PT JURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	KILOGRAMS	K
TONS	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

), PROCESSES

1. PROCESS CODES:

tics and/or the toxic contaminants of those hazardous wastes.

For listed hexardous waste: For each fisted hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hezardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

OTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by one than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual
 quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

XAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds or year of chrome shavings from leather tanning and finishing operation, in addition, the facility will treat and dispose of three non—listed wastes. Two wastes a corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 30 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

		A.						C. UNIT										D. PROCESSES					
Ö	W	AZ AS	TE	N	ol	B. ESTIMATED ANNUAL QUANTITY OF WASTE	1 7	UR ente	E er		1. PROCESS CODES (enter)						:00	ES	3			2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	K	0	5		1	900		P		T	6) 3	3	D	8	0	1				1		
-2	D	0	C)	2	400		P		T	1) 3	3	D	8	0	7				1	1	
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will from page 2.
Photocopy this page before completing if your page 1) we more than 26 wastes to list. Forn Approved OMB No. 158-\$80004 FOR OFFICIAL USE ON 8 3 1 DUP 0 WALD0081 DUP IV. DESCRIPTION OF HAZARDOUS WASTES (continued) C. UNIT OF MEA-SURE (enter code) MAZAFO.
WASTENO
(enter code) D. PROCESSES B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) - 29 | 87 - 89 | 21 - 24 122 l U 1 2 2 P S 0 1 (See note) S 0 1 (Seg pore) S 0 1= (te) $D_{i}^{\dagger} D_{j}^{\dagger} U_{i+1}$ 38,000 P S 0 1 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 CONTINUE ON REVERSE EPA Form 3510-3 (6-80) • "AGE 3 OF 5 ehind the "3" to identify photocopied pages)

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DESCRIPTION OF H	HAZARDOUS WASTE	ntinued)	THE RESERVE OF THE PARTY OF THE	All of Carlot and the	The state of the s
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existing facilities mus	st include photographs (aeri	ial or ground—leve	// that clearly delineat	e all existing structure	s; existing storage,
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I. FACILITY OWNER			· · · · · · · · · · · · · · · · · · ·	tipet of the other speeds the	College La College Col
🖁 A. If the facility owner	r is also the facility operator as I	listed in Section VIII	on Form 1, "General Inf	formation", place an "X"	in the box to the left and
skip to Section IX b	elow.				
R. If the facility owner	is not the facility operator as li	isted in Section VIII	on Form 1 complete the	following items:	
B. If the facility owner	is not the facility operator as it	isten in Section Alli	on Form 1, complete the	rollowing items.	
	I. NAME OF FACIL	ITY'S LEGAL OWN	ER	2. F	PHONE NO. (area code & no.)

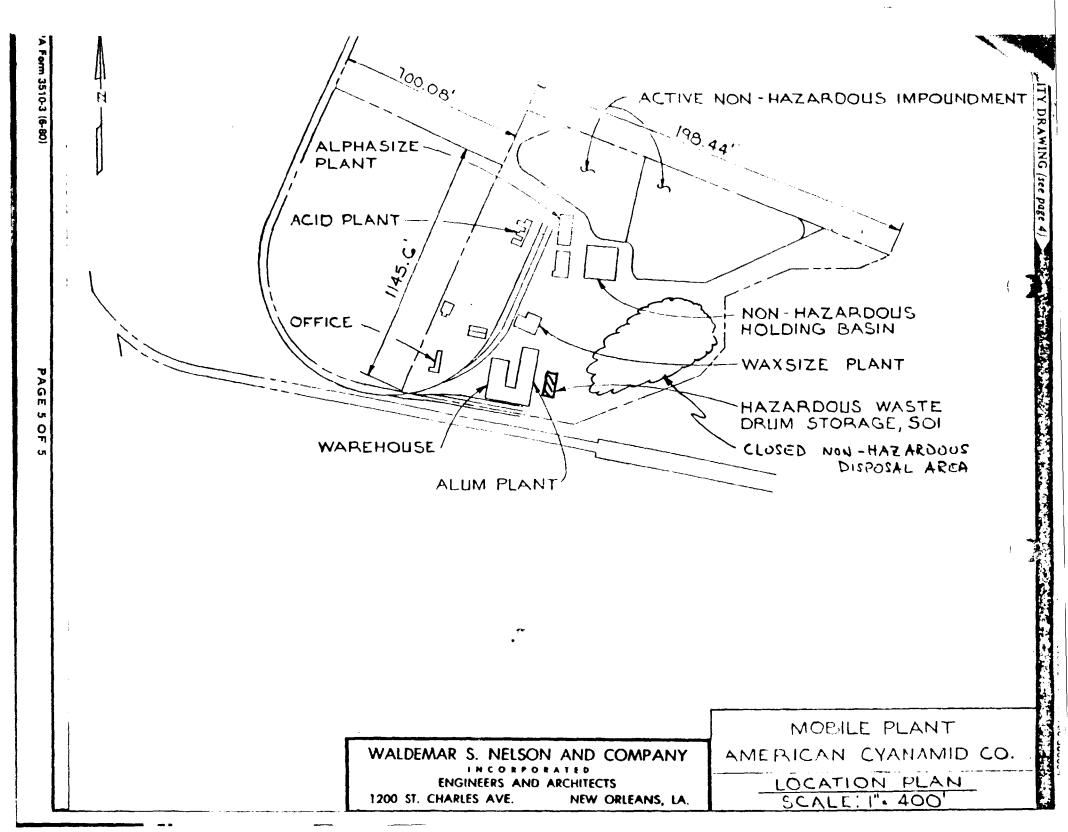
1 8705	ET OR P.O. BOX	 : 	A CITY OF TOWN		6. ZIP CODE
J. DINE	IT OR F.O. BOX	<u> </u>	4. CITY OR TOWN	5. ST.	8. 21P CODE
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luding the possibility of	of fine and imprisonment.				İ
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Form 3510-3 (6-80)		PAGE	4 OF 5		CONTINUE ON PAGE 5

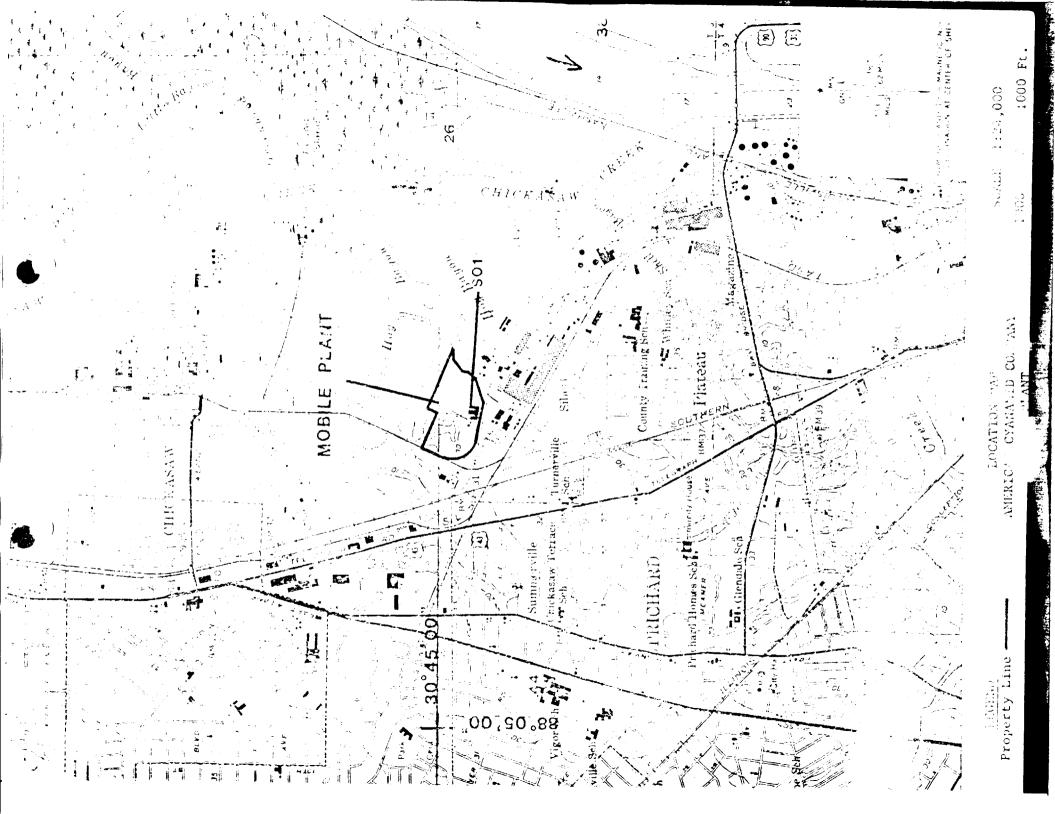
EPA NOTIFICATION OF REARDOUS WASTE ACTIVITY FORM 1. EPA GENERAL INFORMATION EPA I.D. NO. ALDOO8175408

X. Existing Environmental Permits (cont.)

503-5007-0005		503-5007-8709	503-5007-8723
503-5007-0006		503-5007-8710	503-5007-8724
503-5007-0007	•	503-5007-8711	503-5007-8725
503-5007-0008		503-5007-8712	503-5007-8726
503-5007-0009		503-5007-8713	503-5007-8727
503-5007-0010		503-5007-8714	503-5007-8728
503-5007-8701		503-5007-8715	503-5007-8729
503-5007-8702		503-5007-8716	503-5007-8730
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503-5007-8704	*	503-5007-8718	503-5007-8732
503-5007-8705		503-5007-8719	503-5007-8733
503-5007-8706		503-5007-8720	503-5007-8734
503-5007-8707		503-5007-8721	503-5007-8735
503-5007-8708		503-5007-8722	503-5007-8736 -

State Indirect Discharge Permit: no number. Effective 3/5/80.





H

POTENTIAL HAZARDOUS WASTE SITE LOG

SITE NUMBER

86

NOTE. The initial identification of a potential site or incident should not be interpreted as a finding of flegal act, its or confirmation that an actual health or environmental threat exists. All identified one on the assessed under the LPA's Hazardous Waste Site Enforcement and Response System to determine it a hazard a compact demonstrally exists.

AMERICAN CYANAMISE COP	yeary	The state of the s	i sprop, a e e est	
mobile		PLA.	3661	4
SUMMARY OF POTENTIAL OR KNOWN PROBLEM	·	· · · · · · ·	·	
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THE NEEDS ATION OF POTENTIAL PROBLEM	19		Javier A. Cola	2/4/80
2 PRELIMINARY ASSESSMENT	1/2 180		JAVIIA A. Colon	
APPARENT SERIOUSNESS OF PROBLEM	-11GH	MEGIUM XLOW NO	NE INVINUEN	
3 SITE INSPECTION	1/28/80			3/19/20
4 EPA TENTATIVE DISPOSITION 4 (check appropriate (tem(a) below)		,		. •
u. NO ACTION NEEDED	*			
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ter & NAL STRATEGY DETERMINATION to & appropriate remies below)				1
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b. REMEDIAL ACTION NEEDED			i	
REMEDIAL ACTION NEEDED BUT, NO RESOURCES AVAILABLE				
, d. ENFORCEMENT ACTION NEEDED		and the second of the second o		
CASE DEVELOPMENT PLAN PREPARED				
(2) ENFORCEMENT CASE FILED OR ADSINISTRATIVE ORDER ISSUED				
6 STRAYEGY COMPLETED				
FPA Form T2070-1 (10-79)				4

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	FTA

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

	REGION	SITE NUMBER (10 60 4	
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J	-	i	

TO S 6

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE II	DENTIFICATION	
A. SITE NAME	B. STREET (or other Identifier)	
AMENICAN CYANAMIDE Company	Cranamica ro	rod
C. CITY	D. STATE F. TIP CODE	F. COUNTY NAME
mobile	AL. 36614	mobile
5 GAMER/OPERATOR II known)		
A		2. TELEPHONE NUMBER
The work Cymanite		(205) 457-6601
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THE TATE OF SOMEY 4 ME		te NOW to
5. \$ 16.015C ~ TON	Conpensation	
	A**:	
a respective to great the same		
I NOW ICENTIFIED (i.e., citizen's complaints, OSHA criations, et .		K. DATE IDENTIFIED
The company provided in Framation Duning The	ECKhandT Report	(mo., day, & vr.)
		mio-1179
L. PRINCIPAL STATE CONTACT		12. TELEPHONE NUMBER
		(2.5) 832-6738
DAN COOPER	MENT (complete this section last)	1201 822-6.198
A. APPARENT SERIOUSNESS OF PROBLEM	MENT (Complete this Section last	F
[1 HIGH	NE SUNKNOWN	•
V 1	**************************************	
8. RECOMMENDATION		
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	TENTAT VELY SCHE	DULFO FOR
3. SITE INSPECTION NEEDED # TENTATIVELY SCHEDULED FOR	S WILL BE PERFORMED	D BY
b. WILL BE PERFORMED BY:	4. SITE INSPECTION NEED	DED (law proping)
	a sile more en ron mee	DED (IOW priority)
C. PREPARER INFORMATION		
1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
Javien A. Colon	Be) 832-6728	JAN. 28 /80
III. SITE	INFORMATION	
A SITE STATUS		
1 ACTIVE (Those industrial or studie which are being used altes which no longer rece		cidente like 'midnight dumping' where
for was's treatment, storage, or disposal westes) on a continuing basis, even if infra—	no regular or continuing use of th	he site for waste disposal has occurred.)
quently.)	l	
B. IS GENERATOR ON SITE?		
1. NO Z2. YES (apocify a	entre in a face of the city Cada . A.B.	3.44
[] I. NO	generator a four-digit SIC Code) 38	11, 2831, 2899
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TACRES ON Compr. , PROPERTY 1. LATITUDE (dog min		T: OF /deg.~min.~sec.)
= 30 Acnes Brunson - 10-15/11		
E. ARE THERE BUILDINGS ON THE SITE!		
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4 * FV 18" P		4 TANH A	ACVE GROUND	4 5	RECYCL NG'REC	DVERV	4. SUF	PFACE	MPOUNDMENT
* FORELINE		5. TANK B	IELON GROUND		HEM CORES. TRE	A 1 1.4 F	N: B MID	NIGHT	GUMPING
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is toxic	17 REACTIVE		IGNITABLE 4	FLAMM	MABLE				
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4. ADDITIONAL COMMENTS OR N	DARRATIVE DE	SCRIPTION OF	F SITUATION KNOW	AN OR REPORTED TO EXIST AT THE SITE.									
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2 671799 1519 8114		100 ZA VI. HAZ	ARD DESCRIPTI	ON									
A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INC(DENT (mark 'X')	D. DATE OF INCIDENT (mo.,day,)r.)	E. REMARKS									
1 NO HAZARO													
2 HUMAN HEALTH													
NON-WORKER INJURY/EXPOSURE													
4. WORKER INJURY		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
CONTAMINATION OF WATER SUPPLY													
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12 NOT / FABLE ODORS													
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10 MAR SERTY CAMAGE													
I FIRE OR EXPLOSION													
18 SPILLS/LEAKING CONTAINER RUNOFF/STANDING LIQUIDS	3/												
17. SEWER, STORM DRAIN PROBLEMS		1											
18 EROSION PHOLEMS													
1. NALEQUATE SECURITY													
29. INCOMPATIBLE WASTES													
21. MIDNIGHT DUMPING		 											
22. OTHER (apocity):													
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16. OTHER (specify: 15)	Contraction of the second	<u> </u>	La company of the second secon
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e With BESFECT (O)(L) regula	ation nave & ≓umbĕi	<i>t</i>)	
*		PAST REGULATO	RY ACTIONS
B. YE	Same and the force	1	a contract of the contract of
	IX. INSPEC	TION ACTIVITY	(past or on-going)
A NONE MES	(complete items 1,2		Table 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
I TYPE OF ACTIVITY	2 CATE OF PAST ACTION (mo., day, & yr.)	3 PERFORMIC BY (EPA/State)	4. DESCRIPTION
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11 - ble County Broad	7-18-115	Mobile POUNTS	function disual institutions of a construction to
10011000		#	
	X. REM	EDIAL ACTIVITY	(past or on-going)
		······································	
A. NONE B. YES	S (complete itema 1,		
1. TYPE OF ACTIVITY 2	2. DATE OF PAST ACTION (mo., dey, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
	<u></u>		<u> </u>
			out the Preliminary Assessment (Section II)
information on the first	page of this for	m.	

	HOITAMA	LINEO	PERMIT	'IIA		
⊕ EDA	POT TIAL HAZARDOUS W	ASTE	SITE		REGION	SITE NUMBER (to be seeigned by Hg)
⊕EPA	SE INSPECTION RE			_	IV	86
GENERAL INSTRUCTIONS: Comp tion on this form to develop a Tents File. Be sure to include all approp tection Agency; Site Tracking Syste	ntive Disposition (Section II), riste Supplemental Reports in	File t	his form e. Subm	in its entirety in it a copy of the fo	the region orms to:	ial Hazardous Waste Log U.S. Environmental Pro-
	I. SITE IDEN					
A. SITE NAME A. MIRICAN CYANA	Mip Co.			other Identifier) mide Roo E. IIP CODE	L IF. COUN	
American Cyana Mabile		ı		36614		1661LE
G. SITE OPERATOR INFORMATION 1. NAME A MCRICAN Cyc 3. STREET CYONAMIC ROPE H. REALTY OWNER INFORMATION (III					(205)	457-601 E 6. ZIP CODE
Cyanamid Rood	? mo	bill	,		Ala.	36614
P. REALTY OWNER INFORMATION (II	different from operator of alte)				2. T€L€	PHONE NUMBER
3. CITY		-			4. STAT	E S ZIP CODE
1. SITE DESCRIPTION	See Aver 11 There T					
J. TYPE OF OWNERSHIP						
1. FEDERAL 2. STAT	E 3. COUNTY	4. MU1	HCIPAL	S. PRIVA	TE	
	II. TENTATIVE DISPOSITIO			is section last)		
A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mos, day, & yrs)	B. APPARENT SERIOUSNES	S OF P		3. LOW	4	. NONE
C. PREPARER INFORMATION 2		2. TE	ELEPHON	E NUMBER	J. DATI	E (mo., day, & yr.)
	III. INSPECTION	N INF	RMATIC) N		
A, PRINCIPAL INSPECTOR INFORMA	TION	2. TI	TLE			
3. MICATOZÁTION		·			4. YEL	EPHONE NO. (area code & no.)
B. INSPECTION PARTICIPANTS						
1. NAME	2. ORGA	NIZAT	ION	***************************************		TELEPHONE NO.
	·					

C. SITE REPRESENTATIVES INTERV	IEWED (corporate officials, work	ere, rea	idente)			
1, NAME	2. TITLE & TELEPHONE NO				. ADDRES	
					·	

EPA Form T2070-3 (18-79)

PAGE 1

Continue On Reverse

	2 TELEPHONE NO.	3 ADURESS 4. WAST	E 1728 GENERATES
AMPRICAN CYANAMIL	(200457- 01	Cyanamid Rord mobile 14614	7 - t
E. TRANSPORTER/HAULER I 1 NAME	2. TELEPHONE NO.	3. ADDRESS 4.WASTE	TYPETRANSPORTE
T. F WASTE IS PROCESSED (DN SITE AND ALSO SHIP	PPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED F	OR DISPOSAL.
1. NAME	2. TELEPHONE NO,	3. ADDRESS	
BRUMSON SINGUSTAINS WASTE LAND AND ME	(205) 675-4187	Mn. W. D. BRUNSON, PARS. , DRUNSON CONSTRUCTS. 35 STATION ST. , SARALAND, ALA. 36591	engang
Le contra the	SE 1/4 SE 1/4	Cather 34, 7. 3 1 , 3 - 312 , 11 - 600 3 11 16	
G. DATE OF INSPECTION (mos, day, & yrs)	H. TIME OF INSPECTI	1. ACCESS GAINED BY (credentials must be shown in all cases)
(mos, day, & yrs)	1 3 7 6 6 6	T. PERMISSION [2. WARRANT	
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		IV. SAMPLING INFORMATION licate where they have been sent e.g., regional lab, other EPA	lah contractor
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PHOTOS	·v.	SAMPLING INFO	RMATION (continued)			
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TIM. GROUND [] b. AFRIAL						
SITE MAPPEDI						
(, YES, SPECIFY LOC	ATION OF MAPS					
COORCINATES	Sun 25 / 1/2					
- LAT T - 今ト (degaminas	· · · · · · · · · · · · · · · · · · ·		2 LONGITHEE (deg-mini-sec)			
		V. SITE INF	ORMATION			
SITE STATUS	1		1			
A1. ACTIVE (Those ind unicipal sites which are to which are to which storage is a continuing basis, ever ently	eing used sites which, or disposal wastes.)	KCTIVE /Those h no fonger receive	3 OTHER (specify) Those vites that include such inc where no regular or continuing use has occurred.)	idents like "midnight dumping" of the site for waste disposal		
IS GENERATOR ON SITE			2015 202 0000			
7 2 Z	YES(specify generator s	laur-digit MC Code)	2811,2821,2899			
AREA OF SITE (In acres	D. ARE T	HERE BUILDINGS	ON THE SITE?	<u> </u>		
1) propes	11 1 t. K	O Z. YES	on the site? specify: 127.	wat he fl		
			ON OF SITE ACTIVITY			
cate the major site ac	tivity(res) and details	relating to each a	ctivity by marking 'X' in the appro	priate boxes.		
A THANSPORTER	₽.	STORER	C. TREATER	D. DISPOSER		
. R. A.I.	1 PILE	The Control of the Co	1. FILTRATION	1. LANDFILL		
\$HIP	2. SURFACE	IMPOUNDMENT	2. INCINERATION	2. LANDFARM		
BARGE	S. DRUMS		3. VOLUME REDUCTION	3. OPEN DUMP		
TRUCK	4. TANK, AB	OVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT		
POPELINE		LOW GROUND	B. CHEM./PHYS./TREATMENT	8. MIDNIGHT DUMPING		
OTHE SIMPLETTY)	6. OTHER (OF	ecity)	6. BIOLOGICAL TREATMEN	6. INCINERATION		
			7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTIO		
	į		8. SOLVENT RECOVERY	8. OTHER (specify)		
			9. OTHER(apocity):			
	!					
The provided the post of the p	to the site falls will a con have filled out an	in any of the catego	orica listed below, Supplemental Report.	rts must be completed, indicate		
			LL SURFACE	S. DEEP WELL		
HEMPSIO			UMP [] 9. TRANSPORTER [
The second secon	VI	I. WASTE RELAT	ED INFORMATION			
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t, Liquip	2. SOL10	₩ 3. SLUDGE	4. GAS			
ASTE CHARACTERISTI	c s					
1. CORROSIVE	2. IGNITABLE		CTIVE 4. HIGHLY VOLATILE			
5. TOXIC	6. REACTIVE	7. INERT	8. FLAMMABLE			
9. OTHER (apocily):						
ASTE CATEGORIES	silable? Specify items as	ch as manifests, in	ventories, etc. helaw.			
ASTE CATEGORIES	silable? Specify items so	ich as manifests, in	ventories, etc. below.			

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DISTRICT SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hearth) 1. SUBSTANCE	(3) POTW		<u> </u>		13) MILLING/MINE	(3) RADIOACTIVE
Consider Control Contr	ALUMINUM (4) SLUDGE			(4) PESTICIDES	FERROUS SMELT	(4) MUNICIPAL
1. SUBSTANCE Company	(8) OTHER (epocify):			(6) DYES/INKS	NON-FERROUS SMLTG. WASTES	(5) OTHER (epecify)
1. SUBSTANCE Company	Rejeden			161 CYANIDE		
1. SUBSTANCE Company	Agnorinate			(7) PHENOLS	surge	•
1. SUBSTANCE Company	- Maraffins 45°			(B) HALOGENS	AL, 03	
1. SUBSTANCE OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard) 1. SUBSTANCE Company Compan	· Perina 40%			(91 PC B	Froz	
1. SUBSTANCE OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard) 1. SUBSTANCE Company Compan	Soils 30 40			(10)METALS	Tios	
1. SUBSTANCE 2. FORM: (math 'X') 3. 50				(11) OTHER(apecify	"	
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2	IX. P	OPULATION DIRE	CTLY AFFECTED BY	SITE	t	
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LOCATION OF POPULATION	В.	APPROX. NO.	C. APPROX. NO. OF C	EOPLE	OF BUILDINGS	TOSITE
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for the IND.	Dag. Disch	angel	4. LAKES/RESERVOIRS B. O.	THER(pocity): P.O. T. W		
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		` `					
			XI. SOIL AND VEGITATION	V DATA	<u> </u>		
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I E. A HEUL	PLATED FLOO	DMV	F. CRITICAL HABITAT	. RECH	ARGE ZONE OR SOLE SOUR	CE AQUIFER	
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PAGE 9 OF 10

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A. PERMIT TYPE .g., RCRA, State, NPDBS, etc.)	AGENCY	NUMBER	(mo.,day,&yr.)	(mo. y, & yr.)	1. YES	NO NO	S. UN	
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(Supplemental Report)	
1. TYPE OF IMPOUNDMENT	444.8
holding basin for " game with with	
2. STABILITY/CONDITION OF EMBANKMENTS	
3000	·
3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)	
4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE	
TT VES KNO	
S. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT	
6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT	
M YES NO	
7. IMPOUNDMENT HAS LINER SYSTEM TO. INTEGRITY OF LINER SYSTEM CHECKED	
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EPA Form T2070-3C (10-79)

SURFACE IMPUUNIMENTS SITE INSPEC	TON REPORT	No. of Contraction (Contraction of Contraction of C
pplemental Report)		as Necessary.
1. TYPE OF IMPOUNDMENT		
ALUM MUD in poundment		
2. STABILITY/CONDITION OF EMBANKMENTS		
good		
3. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.)		
A VES TO POSAL OF IGNITABLE OF REACTIVE WASTE		
4. EVIDENCE OF DISPOSAL OF IGNITABLE ON REACTIVE WASTE		
S. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE	E IMPOUNDMENT	and the second s
6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SUR	FACE IMPOUNDMENT	
TYES THO		·
7. IMPOUNDMENT HAS LINER SYSTEM & I feet of impinuious	74. INTEGRITY OF LINER SYSTEM	CHECKED
LALVES - NO CLAY AT THE GOTTOM	L YES DE NO	
Vosten Thempson he Labor probile checked?	the live system . Report :	snow Thed on MARCH 35, 1977
8. SOIL STRUCTURE AND SUBSTRUCTURE P	15 24 1 20 1 1015 CI	A Comment of the Comm
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TO THE STAND CEPTH		
AND DEPTH	= 	
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16. OTHER EQUIPMENT		
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October 22 P. U. Box 1924 Hobile, Alabem AMEN'T LOWB Regional Lustre.



American Cyanamid Company P.O. Box 1924 Mobile, AL 36601 (205) 457 6601

October 3, 1979

Mr. John Poole, Engineer, Technical Staff Alabama Water Improvement Commission State Office Building Montgomery, AL 36130

Mr. Alfred S. Chipley, Director
Division of Solid Waste & Vector Control
Environmental Health Administration
State Office Building
Montgomery, AL 36130

Mr. Danny Herrin Acting Director Division of Air Pollution Control Mobile County Board of Health P. O. Box 2867 Mobile, AL 36604 RECEIVED

OCT 4 1979

DIMISION OF SOLID WASTE

Dear Sirs:

Regarding NPDES Permit No. AL0002747, specifically, the Alum Waste Impound:

The alum impound has been in service since June 30, 1977 and is presently approximately 65% filled. It is proposed to divide the impound with a new dike and excavate about 50,000 cubic yards from one-half while discharging into the other. The impound will remain divided on a permanent basis and it is estimated one-half will require excavation every two years at present production volumes.

Disposal of these solids will be in the site previously approved for this type waste material. This site is the W. D. Brunson pit near the Saraland Landfill (please refer to the Engineering Report prepared by J. B. Converse & Co., Inc. and submitted December, 1976).

When deposited in the approved disposal site, the solid waste material will be covered with a layer of impervious clay material as was done in the past.

Your approval to again dispose of these solids is respectfully requested. Your early consideration and response in the matter will be greatly appreciated.

Very truly yours,

AMERICAN CYANAMED COMPANY

Regional Production Manager

JU/mh

STATE OF ALABAMA

WATER MPROVEMENT COMMISSION

fra L. Myers, M.D. Chairman, State Health Officer

John W. Hodnett
Vice Chairman
Commissioner, Department of
Conservation and Natural Resources

Perry Hill Office Park 3815 Interstate Court Montgomery, Alabama



James W. Warr Chief Administrative Officer

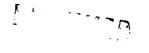
December 10, 1577

Commission Members:

Sam Dyson, Fairhope Dr. Robert M. Bucher, Mobile Charles O. Cargile, Hugytown Louis Grabensteder, Huntsville David L. Thomas. Montgomery

Mailing address: State Office Building Montgomery, AL 36130

Telephone 205/277-3630



DEC 19 1977



Mr. John DiPlacido
Regional Production Manager
American Cyanamid Company
Post Office Box 1924
Mobile, Alabama 36601

Dear Mr. DiPlacido:

This is in response to your December 7, 1977, request for approval to dispose of wastewater treatment solids by landfilling in a site previously used for alum waste disposal.

Based on available data, the Commission's technical staff has no objection to the proposed disposal method provided water quality in the disposal area is not degraded. This is, of course, contingent upon appropriate approvals from the Alabama Department of Public Health, Division of Solid Waste and Vector Control, and the Mobile County Health Department.

By copy of this letter, we are advising the Division of Solid Waste and Vector Control of your request for approval.

Yours very truly,

Shill a Good

Carl D. Nelson

Engineer, Technical Staff Water Improvement Commission

CDN:dat

ec: Ir. Alfred S. Chipley, w/enc.
Mr. Johnny Senders
Mobile Office, w/enc.

CYANAMID

A M E R I C A N C Y A N A M I D C O M P A N Y POST OFFICE BOX 1924, MOBILE, ALA. 36601 AREA CODE 205 XXXXXXXX 457-660]

December 7, 1977

Mr. Carl D. Nelson Engineer, Technical Staff Alabama Water Improvement Commission State Office Building Montgomery, AL 36130

Mr. Johnny W. Sanders, PE Chief Engineer Division of Air Pollution Control Mobile County Board of Health P. O. Box 2867 Mobile, AL 36604

Dear Sirs:

Regarding NPDES Permit No. AL0002747, specifically, Discharge Serial 002:

The holding basin has accumulated solids in each compartment. We propose to remove the liquid by pumping from the first compartment into the second, then to remove the solids from the first compartment and dispose of them at an approved disposal site. While accomplishing this removal normal operations in the second compartment will be maintained. When the clean out of the first compartment has been completed, the procedure as outlined above will be repeated for cleaning out the second compartment.

Disposal of these solids in the site previously approved for the disposal of our alum muds waste material is proposed. This site, is the W. D. Brunson pit near the Saraland Landfill (please refer to the Engineering Report prepared by J. B. Converse & Co., Inc. and submitted December, 1976).

An estimated 200 cubic yards of non-toxic solid waste material is to be removed from the holding basin. This material is composed largely of surface soils, rosins, paraffin waxes and small amounts of polymers. The pH of the moisture contained in these solids usually runs in the upper side of the permitted range (8.0-9.0).

When deposited in the approved disposal site, the solid waste material will be covered with a layer of impervious clay material as was the alum waste.

RECEIVED

DEC 8 1977

WATER IMPROVED ENT

Although an exact figure is not predictable regarding the frequency at which the proposed clean outs will be necessary it is estimated that it will be required two or three times annually.

Your approval to dispose of these solids from the holding basin compartments as outlined in the preceding paragraphs is respectfully requested. Your early consideration and response in this matter will be greatly appreciated.

Very truly yours,

AMERICAN CYANAMID COMPANY

John DiPlacido

Regional Production Manager

JD/rmh

CC: Messrs. P. T. Riffe

W. Askins

J. 2 Von Sprecken

ŧ

A CHARLES FREEMAN Attorney

GEORGE W. SWINDEL, JR. Director.

Administrative Services

THORNTON L NEATHERY Director. Budget & Program Development

W. EVERETT SMITH Director. Technical Operations





THOMAS J JOINER Acting State Geologist and Oil and Gas Supervisor

April 14, 1977

TECHNICAL DIVISIONS WATER RESOURCES H. C. Barksdale, Chief

MINERAL & ENERGY RESOURCES. P A Boone Chief

> **GEOLOGY** C. W. Copeland, Jr., Chief.

ENVIRONMENTAL R L Chermock, Chief

GEOCHEMISTRY & WATER QUALITY RESEARCH A. M. Malatino, Chief.

> PUBLICATIONS T V Stone, Chief

Mr. Richard T. Maddox Engineer, Technical Staff Water Improvement Commission Montgomery, Alabama

Dear Mr. Maddox:

This is in reference to a request by your office for a re-visit, and inspection, of the W. D. Brunson pit, being used, presently, as a disposal point for alum mud. The pit, as you are aware, is located along Celeste Road in east-The Geological Survey of Alabama is central Mobile County. carrying out a program of geologic and hydrologic studies in connection with specific problems of potential pollution in cooperation with the Water Improvement Commission and the State Health Department.

The above-referred pit was field-inspected on April 11, Construction of the alum mud landfill, reportedly underway about one month, is approximately one-half complete.

To-date progress, as observed or inferred, is outlined below for your reference:

- The area in the central part of the pit underlain by permeable sands has reportedly been cored and backfilled with on-site clay.
- The bottom and sides of the landfill are irregularly shaped. The uneven configuration apparently is the result of minimum cut-andfill.

RECEIMED

APR 19 1977

WATER IMPROVEMENT COMMISSION

AN EQUAL OPPORTUNITY EMPLOYER

P.O. Drawer 0

University bama 35486

Phone (205) 349-2852

Geological Resn

to Alabama's Future

- 3. Ponded water is present in the lower (southern) end of the fill area. Wet alum mud deposited on the up-slope (northeast) side probably contributes some drainage to the pond; other sources include rainfall.
- 4. No downgradient (W) seepage of alum leachate was noted on April 11. Wet clays, however, were observed in this direction. Rainfall is probably contributive to this condition.
- 5. An adequate cover is not being installed on the landfill. On April 11, sandy (permeable) sediments were being hauled to, dumped and graded on the landfill surface. Mr. Brunson was made aware (on April 13) that a layer of (low permeable) clay is needed as a final cover for the landfill to prevent its eventual saturation by rainfall.

Sincerely yours,

GEOLOGICAL SURVEY OF ALABAMA

Robert V. Chandler, Head

Monitoring Section
Water Resources Division

xc: Dan Cooper

1

≎FP Δ	PO ITIAL HAZARDOUS WASTE SITE						NUMBER	n = 100	
The state from in the source Hear	TENTATIVE DISPOSITION File this form in the regional Hazardous Waste Log File and submit a copy to: U.					W YHUD		75 408	
System; Hazardous Waste Enforce	ement Task Forc	e (EN-335); 401 M	St., SW; Was	hington, DC	20460.	otection A	ency; one	TINCKING	
A. SITE NAME		I. SITE IDENTI	B. STREET				·· · · · ·		
American Cya	nimide		Cuan	imide	Ra	(
C. CITY			D. STATE	1		E. ZIP CO			
Mobile			144			366	<u> 33 </u>		
Tadionto the recommended action('a \ a = 4 a == mau(ia	II. TENTATIVE	-		45- ana	ieta ha			
Indicate the recommended action(es) that should be i	involved by in	atking Y. T	n the app	ACTION			
RE	COMMENDATION			MARK'X'	EPA	STATE	LOCAL	PRIVATE	
A. NO ACTION NEEDED NO HAT	ARD		·	\geq					
B. INVESTIGATIVE ACTION(S) NEE	EDED (II yes, com	plete Section III.)			<u>.,</u>				
C. REMEDIAL ACTION NEEDED (11					<u> </u>				
ENFORCEMENT ACTION NEEDE D. be primarily managed by the EPA is anticipated.) E. RATIONALE FOR DISPOSITION	D (if yes, specify or the State and w.	in Part E whether the hat type of enforcement	ent action						
This is an interim status facility									
F. INDICATE THE ESTIMATED DA' (mo., day, & yr.)	TE OF FINAL DIS	POSITION	G. IF A CASE ESTIMATE (mo,, day, &	D DATE ON					
H. PREPARER INFORMATION			L				·		
I. NAME Elizabeth 1	1 Shaw	ves		104) 881-2234 10-1-85					
<u> </u>		NVESTIGATIVE A							
A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION. MEDICAL PROPERTY OF THE PROPERTY OF									
B. PROPOSED INVESTIGATIVE AC	2. SCHEDULED		<u> </u>						
1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	DATE OF ACTION (mo,day, & yr)	3. TO BE PERFORMED BY (EPA, Con- tractor, State, etc.)	4. ESTIMATED MANHOURS			5. REMARK	S		
e. TYPE OF SITE INSPECTION (1)									
(2)					<u> </u>				
(3)									
b. TYPE OF MONITORING (1)									
(2)									
									
	1	1		I					

C. PRIVATE

___ 2. PROJECT MANAGEMENT SUMMA

Site Name: A MERICAN CYANAMID
Site Number: ALO 008175408
Owner: A MERICAN C YANAMIO
Operator:
Site Status: Active Inactive Unknown
Priority: High Medium Low None
, ·
3. FINAL DISPOSITION
I. EPS Final Review - Date: 9/9/85 Comments:
Site Inspection Required / Yes // No
II. ADEM Review - Date: 9/24/85 SCM Comments:
Follow-up Action Required / / Yes // No
1
III. Final Disposition: Review & revise Date: Edited & correct Date: Transmitted Date: File close-out Date: Initiate site inspection Date:
4. ADDITIONAL COMMENTS (ONGOING & FINAL)
TO THE BEST OF OUR KNOWLEDGE
THIS IS A RCRA FACILITY ONLY

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT EPS FORM 3012-III

INDUSTRIAL NARRATIVE SHEET

1. Site Identification:

Site number: ALD008175408

Site name: American Cyanamid

Site county: Mobile

2. Industrial Narrative Summary:

Company Name: American Cyanamid

Address: P. O. Box 1924

Mobile, AL 36633

Telephone No.: 205/457-6601

Contact: Mr. Ron B. Melton

Discussion: American Cyanamid in Mobile, Alabama, is a producer of alum, sizing for paper products, and synthetic resins. An Eckhardt report performed in 1980 found no major problems. The plant is currently regulated by a RCRA Part A permit. Action is now being taken to review their Part A and determine if a Part B is needed or if they can withdraw their Part A altogether. Their wastewater is received by International Paper which operates an NPDES permitted wastewater treatment facility. They currently have on site an impoundment for settling alum sludge. This sludge is disposed of in local sanitary landfills as non-hazardous. Groundwater wells sampled on site were quite normal for the area.

3. Disposition:

No further action needed at this time. This is a current RCRA facility.

4. Comments:

NA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT EPS FORM 3012-II

TELEPHONE LOG SHEET

L.	Site Identification:
	Site number: ALDOO9 175 408
	Site name: American Cyanamid
2.	Interview Data: (Party called)
•	Name: MR. Ron B. Melton
	Position: Plant Manager
	Position: Plant Manager
	Firm: American Cyanamid Address: P.O. Box 1924
	Address:
	Mobile, AL 36633
	Telephone No.: 205/457-660/
3.	EPS Analyst Data:
	Name: J.M. Duncen
	Purpose of call: PA Information
	Form 2070-12 (7-81) P.N.
	Date of call: 9/4/85
	vace of carr
	The marie of Normanica Commence of Mall 1 1 1 1 1 1 Cl
4.	Interview Narrative Summary: Mr. Melton gave directions to the site as follows:
<u>_ 5</u> e	outh on 43 til Bapermill Rd. then turn left, go 3/4 mile then left again on Cyanamid
	d. Plant is Yy mile on Cyanamid Rd. Mr Melton stated that the site has been operated
_ 51	ince 1939 by Cranamid. He said their products where alumi paper + water treatmen
ch	emicals. They are presently reviewing their RCRA penit for possible withdraw. He
30	aid their 1984 Generator reports show a one time disposal of bad feeds tock and
	hey normally generate no weste. He stated that their waste water goes to a
	they have a description of the state of the
	reatment system owned by International Paper.
_	Pinanciki na 10 mana kan
5.	Disposition/Comments:
-	
6.	Comments: Any additional sites used by this company?
0.	
	Location:
	Dates of use:
	Description of waste:
	Comments:

ENVIRONMENTAL PROTECTION SYSTEMS, INC. Alabama RCRA 3012 Site Ranking Scheme EPS Form 3012-V

Site Name American (yanamid Site Number ALDOOS 175 408

Preliminary Assessment Ranking Scheme to Determine Which Sites Merit Further Action.

(Select one answer for each of the following seven questions)

1.	Are Hazardous Substances Present? A. Confirmed on site! B. Suspected at site!	10 points 5 points
	C. It is unknown!	2 points
	D. No hazardous substances	0 points
	E. RCRA facility only!	0 points x
2.	Is There a Pollution Dispersal Pathway? A. Direct to surface and/or groundwater. B. Indirect to surface and/or groundwater. C. Suspected to surface and/or groundwater.	5 points 4 points 3 points
	D. Not known for sure.	2 points
	E. No pathway.	0 points
3.	Characteristics of Human Population? A. High density. B. Medium density. C. Low density. D. No population.	5 points 4 points 3 points 2 points
4.	Characteristics of Natural Environment? A. Critical habitat including endangered species, etc. B. Sensitive habitat.	5 points 3 points
	C. Common less sensitive habitat.	2 points
5.	How is Human Population Affected By Site? A. Public utility of drinking water from site.	5 points
	B. Direct public access to site.	4 points
	C. Public access to affected	
	surface water.	3 points
	D. Only potential for human	
	population contact.	2 points
	E. Low or no potential for contact.	1 point
6.	Facility Management Practices at Site? A. Site actively supervised and managed currently with monitoring reports and	
	other permit and report requirements.	1 point
	B. Site inadequately managed records not up-to-date.	3 points

C. Site not currently managed or regulated.

D. Abandon site.

7. Potential Responsible Parties for Site Operations?

A. Controlling party identified and accepts responsibility for site.

B. Suspected controlling party identified but does not accept responsibility for site.

C. No responsible party available.

4 points

4 points

5 points

Ranking Score =

$$\frac{O}{\#1} \times \boxed{\frac{\sqrt{A}}{\#2} + \frac{\sqrt{A}}{\#4} + (\frac{\sqrt{A}}{\#3} \times \frac{\sqrt{A}}{\#5}) + \frac{\sqrt{A}}{\#6} + \frac{\sqrt{A}}{\#7}}$$

TABLE 1. Ranking Assessment

NUMERICAL RANGE	PRIORITY ASSESSMENT
0-50 50-150	NONE LOW
150-300	MEDIUM
300-450	HIGH

Ranking Score:

Priority Assessment: NONE

POTENTIAL HAZARDOUS WASTE S: PRELIMINARY ASSESSMENT EPS FORM 3012-I

Site No. ALDOOB 175 408 Site Name American Cyguamid

EPS ANALYST/REVIEWER CHECKLIST

Instructions:

To be used in conjunction with EPA Form 2070-12 (7-81). Attach on inside front of

site folder. Initial and date for all assessment entries under appropriate

part/subpart as completed. initial/date in black for final assessment; in red if

higher level (additional) assessment is in order. Follow same procedure for

review process.

Review Codes:

1-Toxicology Review; 2-Chemical Review; 3-Ecology Review; 4-Chemical Engineer

Review; 5-Geotechnical Review; 6-Project Manager Review; 7-Final Review

Form 2070	Analyst/	Review	Review	Review	Review	Review	Review	Rev 1ew
art Number	Date	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7
•1•-A1•	18 9/3/85			 			mala	gw 91
.I.							1	0
.II.								
.III.								
.IV.								
.V.								
.IV.								
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.I.						ļ		
.II.A								
.II.B								
.II.C								
.II.D		· · · · · · · · · · · · · · · · · · ·					ļ	
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.III.								
.IV.								

^{*}No further assessment/review required, enter NA

3.V.

28/41%

3 0

R A	TING FORM FOR					ITES					
IAME OF SIT			_	TIVE	ACTIVE (CIRCLE ON	<u>:</u>)					
. O C A T I O N	MOBILE, ALA	BAMA	<u> </u>								
W. NER / OPERATOR AMERICAN CYANAMIDE .											
RATING FACTOR	SOURCE AND BAS		S I T A T I	N,G.	. MULTIPLIER	S I T E	MAXIMM POSSIBLE SITE SCORE				
WASTE OBARACTERISTICS											
QUANTITY OF HAZARDOUS WASTES	1PA /				6	. 0	18				
TOXICITY	• 2.4 X	/			7	0	21				
PERSISTENCE		·		V	5	15	15				
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IGNITABILITY	NEVA .	V			3	Ü	9				
REACTIVITY	EPA file				3	0	9				
CORROSIVITY	t de la constant	./			3	0	9				
INFECTIOUSNESS	in file	/			3	0	9				
SOLUBILITY	1012x · . +=			V	4	12	12				
VOLATILITY	SAX.	V		·	4	0	12				
PHYSICAL STATE			V .		4	4	12				
		,		T	OTALS	31	141				
ADDITIONAL POINTS FOR LARGE WASTE QUANTITIES							2 4				
ADDITIONAL POINTS FOR OTHER											
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	/	P. T. O.	R.S				<u> </u>				
POPULATION IN 1,000 FEET	EPA file	1/			1 2	0	3 <u>Ć</u>				
DISTANCE TO NEAREST DRINKING- WATER WELL	assured		L	1-1	8	16	24				
DISTANCE TO NEAREST OFF-SITE BUILDING	assumed		V		8	16	24				
ZONING/LAND USE	EPA lile	V	·	- -	6		18				
ENDANGERED SPECIES OR CRITICAL HABITATS	assumed	/			5	0	18				
				T	OTALS	32	120				
				•		1	1				

ADDITIONAL POINTS FOR OTHER RECEPCORS

	F A	T H V A	<i>X</i>			<u> </u>	
EVIDENCE OF CONTAMINATION	disin				1 2	. 0	: :6
DISTANCE TO NEAREST SURFACE WATER	assumed		1		8	16	. 24
DEPTH TO GROUNDHATER	EPA file EPA file				7	14	51
SOIL PERMEABILITY	EPA file.				6	Ö	18
NET PRECIPITATION	NOAA .	-		سما	6	18	13
DEPTH TO BEDROCK	assumed				. 4	8	12
BEDROCK PERMEABILITY	assumed				4	. 8	12
		•		Ţ	OTALS	64	141
DDITIONAL POINTS FOR OTHER	·			÷			2 0
	WASTE MANAG	E M E N T	P R A	C I	I C E S		VA 11 178 FA 178 A 5 B 18 C
SITE SECURITY					8	0	21
INCOMPATIBLE WASTES	EPA file EPA file				5 .	C	15
RATIO OF HAZARDOUS TO NON- HAZARDOUS WASTE QUANTITIES	Assac,	V		:	5		15
E AND CONDITION OF CONTAINERS	EPA /cc				4		12
OF LEACHATE COLLECTION SYSTEM	"		. ,	1.	4	12.	12
USE OF LINERS	EPA file				4	<u>()</u>	12
•	0			T	CTALS [12	90
DDITIONAL POINTS FOR OTHER ISTE MANAGEMENT PRACTICES				, 4		0	2 0
COMPANY OF THE SECRET	The second second second		Manage		in a speciment	ri dravita e	
NUMBER OF MISSING OR ASSU	MED	TOTAL SITE	SCORES		139	λ	
VALUES =OUT OF	29.	TOTAL ADDI	TIONAL PO	INTS_)	
PERCENTAGE OF MISSING OR	•	TOTAL SCOR			13	9	
ASSUMED VALUES = 41		(SITE SCOR	E2 AFO2 WE	וווטכ		172	
		TOTAL MAXI	MUM POSSIE	ELE SI	TIL SCOKE	1-2	
- -		NORMALIZED			28 MAXIMUM SCORE AR	ND MILLTIPLIED B	y 100)
COMMENTS:				-			
							
1/1			·		·		
PREPARED BY:	aid Dai				ON _	6/3	1080
					- 		

U.S. ENVIRONMENTAL /ECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE 137 RUN DATE: //31/87 RUN TIME: 11:27:50

M.2 - SITE MAINTENANCE FORM

	* ACTION: _
EPA ID : ALD008175408	
SITE NAME: AMERICAN CYANAMID MOBILE PLANT SOURCE	CE: H *
STREET : CYANAMID RD CONG DIS	ST: 01 *
CITY : MOBILE ZIP: 36633	3 *
CNTY NAME: MOBILE CNTY CODE	: 097 *
ATITUDE : 30/44/05.4 LONGITUDE : 088/03	3/02.9 *//
OURCE: R LL-ACCURA	ACY: * _
SMSA : 5160 HYDRO UNIT: 0310	160204 *
INVĶNTORY IND: Y REMEDIAL IND: Y REMOVAL IND: N FED FAC II	IND: N *
NPL IND: N NPL LISTING DATE: NPL DELISTING DATE:	*/
SITE/SPILL IDS:	*
RPM NAME: BETSY SHAVER RPM PHONE: 404-881-	-2234 *
SITE CLASSIFICATION: SITE APPROACH:	# * <u> </u>
DIOXIN TIER: REG FLD1: REG FL	.D2: 1 *
RESP TERM: PENDING () NO FURTHER ACTION ()	* PENDING (_) NO FURTHER ACTION (_)
INF DISP: NO VIABLE RESP PARTY () VOLUNTARY RESPONSE () COST RECOVERY	
SITE DESCRIPTION:	
	*
	*
	•

U.S. ENVIRONMENTAL FECTION AGENCY OFFICE OF EMERGENCY AND MEMEDIAL RESPONSE C E R C L I S V 1.2

PAGE 138
RUN DATE //31/87
RUN TIME: 11:27:50

M.2 - PROGRAM MAINTENANCE FORM

		*	ACTION:	*
SITE:	AMERICAN CYANAMID MOBILE PLANT			
EPA ID:	ALD008175408 PROGRAM CODE: HO1 PROGRAM TYPE:	*	_	*
PROGRAM C	RUALIFIER: ALIAS LINK :	*		*
PROGRAM N	NAME: SITE EVALUATION	*		*
DESCRIPTI	CON:			
		*		*
:		•		*
		*		•
		*		

U.S. ENVIRONMENTAL OTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAG 139 RUN DATE. 07/31/87 RUN TIME: 11:27:50

M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: AMERI PROGRAM: SITE	CAN CYANAMID MOBILE PLANT Evaluation				
EPA ID: ALDOO	8175408 PROGRAM CODE: H01	EVENT TYPE: DS1			
FMS CODE:	EVENT QUALIFIER :	EVENT LEAD: E	* -		_
EVENT NAME:	DISCOVERY	STATUS:	*		-
DESCRIPTION:					
			*		
			•		
			*		
			*		
ORIGINAL	CURRENT	ACTUAL			
START:	START:	START:	* _/_/_	_/_/_	_/_/_
COMP :	COMP :	COMP : 06/01/79	* _/_/_	_/_/_	_/_/_
HQ COMMENT:					
			*		
RG COMMENT:					
			•		
JOP AGR #	AMENDMENT # STATUS	STATE X			
		0	*		

U.S. ENVIRONMENTAL TECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE 140 RUN DATE. //31/87 RUN TIME: 11:27:50

M.2 - EVENT MAINTENANCE FORM

			* ACTION: _		
SITE: AMERIC Program: Site e	CAN CYANAMID MOBILE PLANT EVALUATION				
EPA ID: ALDOO	3175408 PROGRAM CODE: H01	EVENT TYPE: PA1			
FMS CODE:	EVENT QUALIFIER :	EVENT LEAD: S	* _		_
EVENT NAME:	PRELIMINARY ASSESSMENT	STATUS:	*		-
DESCRIPTION:					
			*		
(*		
			*		
			*		
ORIGINAL	CURRENT	ACTUAL			
START:	START:	START: 09/30/85	* _/_/_	_/_/_	_/_/_
COMP :	COMP :	COMP : 09/30/85	* _/_/_	_/_/_	_/_/_
HQ COMMENT:					
			*		
RG COMMENT:					
			*		
L AGR #	AMENDMENT # STATUS	STATE %			
		0	*		

U.S. ENVIRONMENTAL)TECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAG 141 RUN DATE J7/31/87 RUN TIME: 11:27:50

M.2 - COMMENT MAINTENANCE FORM

SITE	: AMERICAN CYANAMID MOBILE PLANT			
EPA	ID: ALD008175408			
COM NO	COMMENT	,	ACTION	
001	PART A- ON FILE	*	_	•
		*		*
002	SITE INSPECTION WAS COMPLETED BY TH	*	_	•
	E STATE 80/03; FOR FINAL	*		
· ·	DISPOSITION 81/09	•	_	•
		*		*

U.S. ENVIRONMENTAL TECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

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		M.2 - REGIONAL UTILITY MAINTENANCE FORM
SITE: AME	RICAN CYANAMID MOBILE PLANT	
EPA ID:	ALD008175408	
REG CODE:	HSCA-01	* ACTION: _
DESCRIPTION:	ACIDS	**
		*
DATE1:		• _/_/_
DATE2:		· _/_/_
{ E3:		· _/_/_
FREE FIELD:		*
REG CODE:	HSCB-01	* ACTION: _ *
DESCRIPTION:	ALUM SLUDGE	*
		*
DATE1:		* _/_/_
DATE2:		* <u>_/_/</u>
DATE3:		*/_/_
FREE FIELD:		•
REG CODE:	HSCS-01	* ACTION: _
DESCRIPTION:	TOLUENE	
		* *
DATE1:		* _/_/_
DATE2:		* <u>_/_/</u>
DATE3:		* _/_/_
FREE FIELD:		•

AMERICAN CYANAMID MOBILE PLANT

SITE:

U.S. ENVIRONMENTAL STECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

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EPA ID:	ALD008175408		
REG CODE:	HSC8-01	* ACTION: _	*
DESCRIPTION:	ALUM SLUDGE		*
		•	*
DATE1:		* _/_/_	*
DATE2:		* _/_/	*
E3:		* _/_/_	•
FREE FIELD:		•	*
050 0005	0000 01		*
REG CODE:	OPDS-01	* ACTION: _	
DESCRIPTION:	IMPOUNDMENT FOR ALUM SLUDGE	*	•
		*	*
DATE1:		* _/_/_	*
DATE2:		* _/_/_	*
DATE3:		* _/_/_	*
FREE FIELD:		*	•
REG CODE:	OPD7-01	* ACTION: _	
DESCRIPTION:	SOIL CONTAMINATION - TOLUENE SPILLS	*	
		*	
DATE1:		* <u>/</u> _	
DATE2:		* _/_/_	•
DATE3:		* <u>_/_/_</u>	*
FREE FIELD:		*	

AMERICAN CYANAMID MOBILE PLANT

SITE:

U.S. ENVIRONMENTAL : .ECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

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EPA ID:	ALD008175408	
REG CODE:	RCRA-01	* ACTION: _
DESCRIPTION:	RCRA REFERRAL	•
		*
DATE1:		* _/_/_
DATE2:		* _/_/_
£ _3:		* _/_/_
FREE FIELD:		*
REG CODE:	4C85-01	* ACTION: _
DESCRIPTION:	CERCLA FY85 COOPERATIVE AGREEMENT	*
		*
DATE1:		* _/_/_
DATE2:		• _/_/_
DATE3:		* _/_/_
FREE FIELD:		*
REG CODE:	4REF-01	* ACTION: _
	REFERRED TO RCRA. INTERIM STATUS FACILITY	•
		*
DATE1:		*_/_/_
DATE2:		* _/_/_
DATE3:		* _/_/_
REE FIELD:	RCRA	•

AMERICAN CYANAMID MOBILE PLANT

SITE:

U.S. ENVIRONMENTAL TECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

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RUN DATE. J7/31/87
RUN TIME: 11:27:50

EPA ID:	ALD008175408	
REG CODE:	4STS-01	* ACTION: _
DESCRIPTION:	ECKHART SURVEY SITE	•
		*
DATE1:		· _/_/_
DATE2:		• _/_/_
r · =E3:		* _/_/_
: Face FTELD:		•